

September 20, 2023

Mr. Richard Underwood
Director of Operations and Maintenance
155 Merrimack Street, 4th Floor
Lowell, Massachusetts 01852

RE: **Post-Remediation Assessments**
Pawtucketville Memorial Elementary School
425 West Meadow Road, Lowell, Massachusetts
EFI Project No.: 014.06880

Dear Mr. Underwood:

On August 29th, 30th, and September 4th, 2023, EFI Global, Inc. (EFI) performed post-remediation assessments following completion of microbial remediation activities at the Pawtucketville Memorial Elementary School (Pawtucketville School) located at 425 West Meadow Road in Lowell, Massachusetts. The assessments consisted of a visual inspections and collection of bioaerosol samples for airborne total fungal spores (air samples for mold).

SUMMARY OF MICROBIAL REMEDIATION ACTIVITIES

Mold remediation activities were conducted in classrooms, corridors and in the cafeteria at the Pawtucketville School following the discovery of suspect fungal growth on building surfaces. Remediation work was conducted between August 25th and September 4th by remediation contractor SERVPRO of Lowell along with assistance from Lowell Public Schools maintenance personnel. Remediation work primarily included the wet wiping of impacted hard surfaces (*e.g.*, ceilings, walls) with a detergent disinfectant solution. Microbial remediation activities were conducted in conjunction with the operation of high-capacity high-efficiency particulate air (HEPA) filtration units and high-capacity dehumidification units.

ASSESSMENT METHODS

The post-remediation assessments were conducted by EFI representatives, Mr. Peter von Au, Mr. Derrick Calvario, and Mrs. Kayla Smith-Carnes, and included a visual inspection for any remaining evidence of visible suspect fungal growth. A total of eighty-five (85) bioaerosol samples were collected at indoor locations over the course of the three site visits (August 29th, August 30th, and September 4th, 2023). Two outdoor samples were collected, and one field blank sample was prepared, during each individual site visit day for purposes of comparison and quality control, respectively. All samples were submitted to EMSL Analytical, Inc. (EMSL) of Woburn, Massachusetts for analysis.

All bioaerosol samples were collected on Zefon Air-O-Cell spore trap cassettes using a Zefon Bio-Pump Plus sampling pump with a calibrated flow rate of 15 liters per minute (lpm). Each sample was collected over a period of five minutes resulting in a total of 75 liters of air being drawn through the spore trap cassettes. These cassettes are a unique sampling device designed for the rapid collection and analysis of a wide range of airborne particles, including fungal spores. Samples were analyzed via light microscopy at the standardized magnification of 600 times. Spore trap sampling measures the viable spores that are capable of growing and reproducing given the proper conditions, the non-viable (dead, but still allergenic) spores, and the fragments of fungal colonies that are released as the fungi grow. These are the primary bio aerosols that can cause allergic reactions in sensitive individuals and contribute lowering the indoor air quality. Unfortunately, this technique does not allow for the differentiation between *Aspergillus* and *Penicillium* spores because they are morphologically identical. Additionally, the technique does not allow for cultivation, or the identification of spores to the species level, barring a few cases.

RESULTS and RECOMMENDATIONS

Microbial Guidelines

There are no government regulations currently in effect for microbiological contaminants; however, there exist several non-regulatory guidelines, which are based on extensive field experience. It must be emphasized that fungal and bacterial contamination are dynamic phenomena and that species within an area can change due to environmental conditions. Allergic reaction is a common health effect of exposure to mold. Additionally, individual health may be affected by the presence of high levels of non-toxic or non-pathogenic microbes that may emit volatile compounds (musty odors) from the mycelia (fungal plant) or vapors from substrate breakdown.

In general, airborne concentrations indoors should be less than or comparable to that found in the outdoors, with similar species composition. Indoor spore counts significantly greater than those outdoors, or the presence of large numbers of different types of spores indoors that are not found outdoors, may indicate contamination and potential indoor air quality problems.

In most cases, EFI uses a combination of published laboratory information as well as our own experience to establish the following recommended guidelines for air samples:

- Total concentrations obtained inside the building/residence that are below ambient levels or below 2,000 spores per cubic meter (spores/m³), whichever is greater, and;
- Less than 650 spores/m³ for individual mold organisms, are considered normal for the screening method utilized.

Visual Inspection

On August 29th and 30th and September 4th, 2023, EFI did not observe any remaining instances of visible suspect fungal growth in the areas within the Pawtucketville School that were inspected.

Bioaerosol Samples for Airborne Fungal Spores

The following table summarizes the results of air samples for mold collected on August 29th and 30th and September 4th, 2023. The analytical laboratory reports for the samples are included with this report, collectively, as an attachment.

SUMMARY OF RESULTS – AIR SAMPLING FOR MOLD Pawtucketville Memorial Elementary School 425 West Meadow Road, Lowell, Massachusetts August 29th, 30th and September 4th, 2023		
Location	Time	Result (spores/m³)
August 29th, 2023		
Outdoors-1	10:20 a.m.	4,210
Classroom 1066	10:29 a.m.	270
Classroom 1068	10:35 a.m.	680
Classroom 1071	10:42 a.m.	320
Classroom 1073	10:47 a.m.	740
Classroom 1075	10:54 a.m.	1,180
Classroom 1076	11:00 a.m.	680
Classroom 1077	11:05 a.m.	2,090
Classroom 1078	11:11 a.m.	340
Classroom 1079	11:17 a.m.	1,360
Classroom 1081	11:22 a.m.	470
Back Hallway 1066-1081 at 1085	11:29 a.m.	1,330
Back Hallway 1066-1081 at 1075	11:35 a.m.	600
Back Hallway 1066-1081 at 1068	11:40 a.m.	560
South Hallway at 1074	11:46 a.m.	710
South Hallway at 1004	11:52 a.m.	830
Front Hallway at Main Office	11:58 a.m.	550
Front Hallway at 1013 entrance	12:03 p.m.	650
Front Hallway at 1065	12:09 p.m.	2,620
North Hallway at 1038	12:15 p.m.	1,900
North Hallway at 1043	12:21 p.m.	1,180
Outdoors-2	12:28 p.m.	2,280
August 30th, 2023		
Outdoors-1	9:50 a.m.	1,480
Cafeteria	9:57 a.m.	330
Main Office, 1008	10:01 a.m.	230
Gymnasium	10:04 a.m.	ND (<13)
Classroom 1038	10:12 a.m.	1,690
Classroom 1041	10:13 a.m.	8,650
Classroom 1043	10:18 a.m.	2,090
Classroom 1045	10:20 a.m.	1,070
Classroom 1063	10:24 a.m.	510

SUMMARY OF RESULTS – AIR SAMPLING FOR MOLD Pawtucketville Memorial Elementary School 425 West Meadow Road, Lowell, Massachusetts August 29th, 30th and September 4th, 2023		
Location	Time	Result (spores/m³)
Classroom 1061	10:27 a.m.	1,730
Classroom 1066	10:32 a.m.	700
Classroom 1067	10:38 a.m.	530
Classroom 1069	10:40 a.m.	490
Classroom 1072	10:44 a.m.	190
Classroom 1074	10:49 a.m.	2,070
Classroom 1068	10:51 a.m.	380
Classroom 1071	10:55 a.m.	5,020
Classroom 1073	11:01 a.m.	1,140
Classroom 1075	11:05 a.m.	1,110
Classroom 1076	11:07 a.m.	1,240
Classroom 1077	11:13 a.m.	580
Classroom 1078	11:15 a.m.	1,940
Classroom 1079	11:23 a.m.	910
Classroom 1081	11:26 a.m.	2,500
Classroom 1082	11:32 a.m.	200
Classroom 1083	11:34 a.m.	690
Music room, 1097	11:40 a.m.	1,080
Art room, 1093	11:47 a.m.	500
Kitchen	11:53 a.m.	1,780
Classroom 2001	12:05 p.m.	1,040
Classroom 2002	12:08 p.m.	1,930
Classroom 2003	12:12 p.m.	1,600
Classroom 2004	12:16 p.m.	2,580
Classroom 2005	12:20 p.m.	1,400
Library, 2018	12:23 p.m.	1,310
Room 2012	12:28 p.m.	930
Room 2019, Teachers Room	12:30 p.m.	2,140
Room 2027	12:39 p.m.	4,600
Outdoors-2	12:40 p.m.	7,000
September 4th, 2023		
Outdoors-1	8:43 p.m.	4,870
Classroom 1041	8:46 p.m.	770
Classroom 1038	9:02 p.m.	180
Classroom 1043	9:04 p.m.	240
Classroom 1045	9:14 p.m.	90
Classroom 1063	9:11 p.m.	130
Classroom 1061	9:24 p.m.	140
Classroom 1067	9:26 p.m.	170

SUMMARY OF RESULTS – AIR SAMPLING FOR MOLD

**Pawtucketville Memorial Elementary School
425 West Meadow Road, Lowell, Massachusetts
August 29th, 30th and September 4th, 2023**

Location	Time	Result (spores/m³)
Classroom 1066	9:38 p.m.	90
Classroom 1069	9:39 p.m.	240
Classroom 1072	9:46 p.m.	750
Classroom 1074	9:48 p.m.	190
Classroom 1068	9:54 p.m.	340
Classroom 1071	9:56 p.m.	130
Classroom 1073	10:02 p.m.	180
Classroom 1075	10:03 p.m.	230
Classroom 1076	10:12 p.m.	400
Classroom 1077	10:13 p.m.	530
Classroom 1078	10:21 p.m.	1,930
Classroom 1079	10:23 p.m.	1,400
Classroom 1081	10:29 p.m.	100
Classroom 1083	10:29 p.m.	950
Art Room, 1093	10:35 p.m.	90
Kitchen	10:37 p.m.	1,260
Main Office, 1008	10:44 p.m.	710
Classroom 2002	11:02 p.m.	ND (<13)
Classroom 2004	11:03 p.m.	130
Room 2019, Teachers' Room	11:08 p.m.	330
Room 2027	11:10 p.m.	40
Outdoors	11:15 p.m.	7,630

Notes:

1. No spores were detected on the field blank samples.
2. ND (<13) = None detected.
3. In general, the presence or absence of small numbers (1 - 3) of individual spore taxa in the analytical results of each sample should not be considered significant.

Mainly, the bioaerosol sampling results indicate that the significant majority of concentrations of total fungal spores measured at indoor locations, throughout the remediation period, were lower than the corresponding (by site visit date) concurrent average outdoor concentration and were comprised of spore taxa (types) detected outdoors, or commonly detected outdoors. The results also indicate that mainly low concentrations of the *Aspergillus/Penicillium* spore taxon (type) were present in a number of indoor locations but not outdoors. While this type of spore is commonly detected outdoors, it was not detected outdoors on any of the site visit/sampling days. The *Aspergillus/Penicillium* spores likely represent residual spores associated with the fungal growth previously present in the remediation work area locations (e.g., individual classrooms and corridors) and their presence, in mainly low concentrations, would not be unexpected following completion of remediation activities, which are typically disruptive. These mainly low concentrations would generally be expected to decline (and did decline as indicated by the sampling results) with continued operation of the HEPA filtration units.

A couple of additional points are worth noting:

In relation to classroom 1041, it should be noted that the need for remediation was initially identified by the comprehensive building-wide sampling that occurred on August 30. Prior to that sampling, the presence of light fungal growth had not been observed by means of visual inspection and had therefore not been added to the initial remediation scope work that had been defined for SERVPRO of Lowell.

In relation to the relatively high concentrations of total fungal spores identified in 2nd floor locations by the comprehensive building-wide sampling that occurred on August 30, it should be noted that the concentrations were predominantly comprised of Basidiospores and Ascospores. These spore types originate outdoors, and their concentrations tend to be amplified by rain events. The elevated concentrations of total fungal spores identified in 2nd floor locations, along with the concentration of the second of the two outdoor samples, correspond to samples collected following a significant rain event that occurred on August 30.

LIMITATIONS

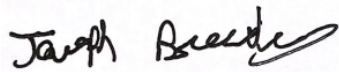
This report has been prepared to assist the client in evaluating indoor air quality concerns at the above referenced site. EFI provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. This report is intended for the sole use of the client. This report is not intended to serve as a bidding document nor as a project specification document and actual site conditions and quantities should be field verified. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user. Although a reasonable attempt has been made to identify indoor air quality issues in the areas inspected, the inspection was limited by the techniques used and areas inspected. Additionally, other possible building material hazards such as asbestos, lead-based paint and microbial issues were not included as part of this evaluation and may require proper sampling for identification prior to disturbance.

Additionally, the passage of time may result in a change in the environmental characteristics at this site. This report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, conclusions, and recommendations expressed in this report are based only on conditions that were observed during the inspection of the site.

EFI appreciates this opportunity to provide indoor air quality services to Lowell Public Schools. If you require additional information or have questions regarding the contents of this report, please contact either of the undersigned at (978) 688-3736.

Sincerely,
EFI Global, Inc.

Reviewed by:



Joseph Bardascino
Environmental Scientist
Cell: 781-770-9692
Joseph.bardascino@efiglobal.com



Michael McCarter
Senior Project Manager
Cell: 978-604-7662
Michael.mccarter@efiglobal.com



Peter G. von Au, CMC, CIEC
Senior Industrial Hygiene Project Manager
Cell: 978-863.8401
peter.vonau@efiglobal.com

Attachment: EMSL Analytical Laboratory Reports, August 29 and 30, September 4, 2023

ATTACHMENT

EMSL ANALYTICAL LABORATORY REPORTS

August 29 and 30, September 4, 2023



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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:	132305524-0001 A01 Field Blank			132305524-0002 A02 75 Outdoors - 1			132305524-0003 A03 75 1066		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	1	40	1	-	-	-
Ascospores	-	-	-	7	300	7.1	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	-	-	-	82	3500	83.1	3	100	37
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	3	100	2.4	2	90	33.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoecum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	1	40	1	-	-	-
Ganoderma	-	-	-	3	100	2.4	1	40	14.8
Myxomycetes++	-	-	-	2	90	2.1	1	40	14.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1	40	1	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	-	No Trace	-	100	4210	100	7	270	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	4	200	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	0*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	-	-	-	-	-	-	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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0004			132305524-0005			132305524-0006		
Client Sample ID:	A04			A05			A06		
Volume (L):	75			75			75		
Sample Location:	1068			1071			1073		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	1	40	5.9	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	40	5.4
Aspergillus/Penicillium	8	300	44.1	1	40	12.5	4	200	27
Basidiospores	5	200	29.4	4	200	62.5	9	400	54.1
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	40	12.5	-	-	-
Myxomycetes++	3	100	14.7	1	40	12.5	3	100	13.5
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	1	40	5.9	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	18	680	100	7	320	100	17	740	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0007			132305524-0008			132305524-0009		
Client Sample ID:	A07			A08			A09		
Volume (L):	75			75			75		
Sample Location:	1075			1076			1077		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	3.4	1	40	5.9	-	-	-
Aspergillus/Penicillium	12	510	43.2	12	510	75	40	1700	81.3
Basidiospores	10	430	36.4	2	90	13.2	2	90	4.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	5	200	9.6
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	4	200	16.9	1	40	5.9	3	100	4.8
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	27	1180	100	16	680	100	50	2090	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0010			132305524-0011			132305524-0012		
Client Sample ID:	A10			A11			A12		
Volume (L):	75			75			75		
Sample Location:	1078			1079			1081		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	11.8	2	90	6.6	1	40	8.5
Aspergillus/Penicillium	-	-	-	4	200	14.7	-	-	-
Basidiospores	5	200	58.8	11	470	34.6	7	300	63.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	6	300	22.1	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	1	40	8.5
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	3	100	29.4	6	300	22.1	2	90	19.1
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	9	340	100	29	1360	100	11	470	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0013			132305524-0014			132305524-0015		
Client Sample ID:	A13			A14			A15		
Volume (L):	75			75			75		
Sample Location:	Back Hallway 1066-1081 @ 1085			Back Hallway 1066-1081 @ 1075			Back Hallway 1066-1081 @ 1068		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	3	1	40	6.7	-	-	-
Aspergillus/Penicillium	2	90	6.8	2	90	15	2	90	16.1
Basidiospores	21	900	67.7	7	300	50	10	430	76.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	5	200	15	1	40	6.7	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	3	100	7.5	-	-	-	1	40	7.1
Myxomycetes++	-	-	-	2	90	15	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	1	40	6.7	-	-	-
Total Fungi	32	1330	100	14	600	100	13	560	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1	40	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0016			132305524-0017			132305524-0018		
Client Sample ID:	A16			A17			A18		
Volume (L):	75			75			75		
Sample Location:	South Hallway @ 1074			South Hallway @ 1004			Front Hallway @ Main Office		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	3	100	12	-	-	-
Aspergillus/Penicillium	4	200	28.2	3	100	12	1	40	7.3
Basidiospores	10	430	60.6	10	430	51.8	10	430	78.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	5	200	24.1	1	40	7.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	1	40	5.6	-	-	-	-	-	-
Myxomycetes++	1	40	5.6	-	-	-	1	40	7.3
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	16	710	100	21	830	100	13	550	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0019			132305524-0020			132305524-0021		
Client Sample ID:	A19			A20			A21		
Volume (L):	75			75			75		
Sample Location:	Front Hallway @ 1013 Entrance			Front Hallway @ 1065			North Hallway @ 1038		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	1	40	1.5	-	-	-
Ascospores	1	40	6.2	-	-	-	3	100	5.3
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	11	470	72.3	9	400	15.3	4	200	10.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	15.4	50	2100	80.2	34	1500	78.9
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	40	1.5	-	-	-
Myxomycetes++	1	40	6.2	1	40	1.5	3	100	5.3
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	16	650	100	62	2620	100	44	1900	100
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305524

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville School 014.6880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/29/2023

Received Date: 08/29/2023 01:20 PM

Analyzed Date: 08/29/2023

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

Lab Sample Number:	132305524-0022			132305524-0023					
Client Sample ID:	A22			A23					
Volume (L):	75			75					
Sample Location:	North Hallway @ 1043			Outdoors - 2					
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total			
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	1.8	-	-	-
Aspergillus/Penicillium	1	40	3.4	-	-	-	-	-	-
Basidiospores	9	400	33.9	38	1600	70.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	15	640	54.2	12	510	22.4	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	3	100	8.5	1	40	1.8	-	-	-
Pithomyces++	-	-	-	2	90	3.9	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Cercospora++	-	-	-	-	-	-	-	-	-
Total Fungi	28	1180	100	54	2280	100	-	-	-
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	-	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	-	-
Skin Fragments (1-4)	-	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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/29/2023 03:07 PM

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

EMSL

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305524

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBURN, MA 01801
PHONE: (781) 933-8411
FAX: (781) 933-8412

Company Name: EFI Global			EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**				
Street: 155 West Street			Third Party Billing requires written authorization from third party.				
City: Wilmington	State/Province: MA	Zip/Postal Code: 01887	Country: USA				
Report To (Name): Peter von Au			Telephone #: 978.863.8401				
Email Address: peter.vonau@efiglobal.com			Fax #: _____		Purchase Order: _____		
Project Name/Number: Pawtucketville School - 014-06880			Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email				
U.S. State Samples Taken: MA		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 checked="" 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
Microbiology Test Codes							
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 Methicillin-resistant <i>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 Legionella Analysis Please use EMSL <i>Legionella</i> COC			
*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***P/A= Presence/Absence							
Name of Sampler: Kayla Smith-Carnes			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	
A01	Field Blank	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	—	8/29/23	
A02	Outdoors-1	↓	<input type="checkbox"/> P <input type="checkbox"/> NP	↓	75L	1020	
A03	1066	↓	<input type="checkbox"/> P <input type="checkbox"/> NP	↓	↓	1029	
A04	1068	↓	<input type="checkbox"/> P <input type="checkbox"/> NP	↓	↓	1035	
A05	1071	↓	<input type="checkbox"/> P <input type="checkbox"/> NP	↓	↓	1042	
Client Sample # (s): A01 - A23		Total # of Samples: 23		Samples Received Chilled? Yes / No (Lab Use Only)			
Relinquished (Client):			Date: 8-29-23		Time: _____		
Received (Lab):			Date: _____		Time: _____		
Comments/Special Instructions: Please email results also to: Kayla.Carnes@efiglobal.com							

REC'D **1:20 pm**
EMSL-BOSTON **AUG 29 2023**

Page 1 of 2

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.

Controlled Document - COC-34 Micro R8 11/14/2017

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305524

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBURN, MA 01886
PHONE: (781) 933-8411
FAX: (781) 933-8412

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

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
A06	1073	Air MOOT	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	8:29:23 1047	
A07	1075		<input type="checkbox"/> P <input type="checkbox"/> NP			1054	
A08	1076		<input type="checkbox"/> P <input type="checkbox"/> NP			1100	
A09	1077		<input type="checkbox"/> P <input type="checkbox"/> NP			1105	
A10	1078		<input type="checkbox"/> P <input type="checkbox"/> NP			1111	
A11	1079		<input type="checkbox"/> P <input type="checkbox"/> NP			1117	
A12	1081		<input type="checkbox"/> P <input type="checkbox"/> NP			1122	
A13	Back Hallway-1066-1081 @ 1085		<input type="checkbox"/> P <input type="checkbox"/> NP			1129	
A14	Back Hallway-1066-1081 @ 1075		<input type="checkbox"/> P <input type="checkbox"/> NP			1135	
A15	Back Hallway-1066-1081 @ 1068		<input type="checkbox"/> P <input type="checkbox"/> NP			1140	
A16	South Hallway @ 1074		<input type="checkbox"/> P <input type="checkbox"/> NP			1146	
A17	South Hallway @ 1004		<input type="checkbox"/> P <input type="checkbox"/> NP			1152	
A18	Front Hallway @ Main Office		<input type="checkbox"/> P <input type="checkbox"/> NP			1158	
A19	Front Hallway @ 1013 entrance		<input type="checkbox"/> P <input type="checkbox"/> NP			1203	
A20	Front Hallway @ 1065		<input type="checkbox"/> P <input type="checkbox"/> NP			1209	
A21	North Hallway @ 1038		<input type="checkbox"/> P <input type="checkbox"/> NP			1215	
A22	North Hallway @ 1043		<input type="checkbox"/> P <input type="checkbox"/> NP			1221	
A23	outdoors-2		<input type="checkbox"/> P <input type="checkbox"/> NP			1228	
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				
			<input type="checkbox"/> P <input type="checkbox"/> NP				

Comments/Special Instructions:

REC'D *1h*

EMSL BOSTON

AUG 29 2023

Page 2 of 2

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.

Controlled Document - COC-34 Micro R8 11/14/2017



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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:	132305565-0001 A01 Field Blank			132305565-0002 A02 75 Outdoors			132305565-0003 A03 75 Cafeteria		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	5	200	13.5	2	90	27.3
Aspergillus/Penicillium	-	-	-	-	-	-	1	40	12.1
Basidiospores	-	-	-	16	680	45.9	4	200	60.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	14	600	40.5	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoecum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	No Trace	-	35	1480	100	7	330	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	0*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	-	-	-	-	-	-	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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0004			132305565-0005			132305565-0006		
Client Sample ID:	A04			A05			A06		
Volume (L):	75			75			75		
Sample Location:	Main Office, 1008			Gymnasium			Classroom 1038		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	2	90	5.3
Aspergillus/Penicillium	1	40	17.4	-	-	-	27	1200	71
Basidiospores	3	100	43.5	-	-	-	6	300	17.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	2	90	39.1	-	-	-	3	100	5.9
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	6	230	100	-	None Detect	-	38	1690	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0007			132305565-0008			132305565-0009		
Client Sample ID:	A07			A08			A09		
Volume (L):	75			75			75		
Sample Location:	Classroom 1041			Classroom 1043			Classroom 1045		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	2	90	8.4
Aspergillus/Penicillium	195	8320	96.2	48	2000	95.7	22	940	87.9
Basidiospores	2	90	1	2	90	4.3	1	40	3.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	4	200	2.3	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	1	40	0.5	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	202	8650	100	50	2090	100	25	1070	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0010			132305565-0011			132305565-0012		
Client Sample ID:	A10			A11			A12		
Volume (L):	75			75			75		
Sample Location:	Classroom 1063			Classroom 1061			Classroom 1066		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	2.3	-	-	-
Aspergillus/Penicillium	12	510	100	37	1600	92.5	8	300	42.9
Basidiospores	-	-	-	2	90	5.2	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	9	400	57.1
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	12	510	100	40	1730	100	17	700	100
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0013			132305565-0014			132305565-0015		
Client Sample ID:	A13			A14			A15		
Volume (L):	75			75			75		
Sample Location:	Classroom 1067			Classroom 1069			Classroom 1072		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	2	90	17	-	-	-	-	-	-
Aspergillus/Penicillium	3	100	18.9	2	90	18.4	3	100	52.6
Basidiospores	1	40	7.5	3	100	20.4	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	8	300	56.6	7	300	61.2	2	90	47.4
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	14	530	100	12	490	100	5	190	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0016			132305565-0017			132305565-0018		
Client Sample ID:	A16			A17			A18		
Volume (L):	75			75			75		
Sample Location:	Classroom 1074			Classroom 1068			Classroom 1071		
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	9	400	19.3	1	40	10.5	6	300	6
Aspergillus/Penicillium	32	1400	67.6	8	300	78.9	94	4000	79.7
Basidiospores	1	40	1.9	1	40	10.5	1	40	0.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	2	90	4.3	-	-	-	16	680	13.5
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	3	100	4.8	-	-	-	-	-	-
Pithomyces++	1	40	1.9	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	48	2070	100	10	380	100	117	5020	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	3	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0019			132305565-0020			132305565-0021		
Client Sample ID:	A19			A20			A21		
Volume (L):	75			75			75		
Sample Location:	Classroom 1073			Classroom 1075			Classroom 1076		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	3.5	-	-	-	8	300	24.2
Aspergillus/Penicillium	25	1100	96.5	15	640	57.7	23	940	75.8
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	7	300	27	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	1	40	3.6	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	2	90	8.1	-	-	-
Pithomyces++	-	-	-	1	40	3.6	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	26	1140	100	26	1110	100	31	1240	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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:	132305565-0022 A22 75 Classroom 1077			132305565-0023 A23 75 Classroom 1078			132305565-0024 A24 75 Classroom 1079		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	2	80	13.8	2	80	4.1	-	-	-
Aspergillus/Penicillium	3	100	17.2	16	660	34	14	570	62.6
Basidiospores	4	200	34.5	5	200	10.3	8	300	33
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	6	200	34.5	25	1000	51.5	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	1	40	4.4
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	15	580	100	48	1940	100	23	910	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0025			132305565-0026			132305565-0027		
Client Sample ID:	A25			A26			A27		
Volume (L):	75			75			75		
Sample Location:	Classroom 1081			Classroom 1082			Classroom 1083		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	3	100	4	-	-	-	-	-	-
Aspergillus/Penicillium	52	2100	84	-	-	-	-	-	-
Basidiospores	7	300	12	3	100	50	4	200	29
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	3	100	50	12	490	71
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	62	2500	100	6	200	100	16	690	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0028			132305565-0029			132305565-0030		
Client Sample ID:	A28			A29			A30		
Volume (L):	75			75			75		
Sample Location:	Music Room, 1097			Art Room, 1093			Kitchen		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	17	700	64.8	-	-	-	19	780	43.8
Aspergillus/Penicillium	-	-	-	8	300	60	17	700	39.3
Basidiospores	8	300	27.8	-	-	-	3	100	5.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	5	200	40	4	200	11.2
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	2	80	7.4	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	27	1080	100	13	500	100	43	1780	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0031			132305565-0032			132305565-0033		
Client Sample ID:	A31			A32			A33		
Volume (L):	75			75			75		
Sample Location:	Classroom 2001			Classroom 2002			Classroom 2003		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	18	740	71.2	11	450	23.3	28	1100	68.8
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	6	200	19.2	35	1400	72.5	9	400	25
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	9.6	-	-	-	3	100	6.3
Curvularia	-	-	-	1	40	2.1	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	1	40	2.1	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	27	1040	100	48	1930	100	40	1600	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	2	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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:	132305565-0034 A34 75 Classroom 2004			132305565-0035 A35 75 Classroom 2005			132305565-0036 A36 75 Library, 2018		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	40	1600	62	24	990	70.7	17	700	53.4
Aspergillus/Penicillium	-	-	-	-	-	-	-	-	-
Basidiospores	19	780	30.2	10	410	29.3	14	570	43.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	5	200	7.8	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	1	40	3.1
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	64	2580	100	34	1400	100	32	1310	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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:	132305565-0037 A37 75 Room 2012			132305565-0038 A38 75 Room 2019, Teachers Room			132305565-0039 A39 75 Room 2027		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	5	200	21.5	34	1400	65.4	38	1600	34.8
Aspergillus/Penicillium	13	530	57	-	-	-	-	-	-
Basidiospores	3	100	10.8	18	740	34.6	74	3000	65.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	3	100	10.8	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	24	930	100	52	2140	100	112	4600	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	41	-	-	41	-	-	41	-
Analyt. Sensitivity 300x	-	13*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305565

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: 014.06880 - Pawtucketville Memorial

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 08/30/2023

Received Date: 08/30/2023 01:20 PM

Analyzed Date: 08/30/2023

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

Lab Sample Number:	132305565-0040				
Client Sample ID:	A40				
Volume (L):	75				
Sample Location:	Outdoors				
Spore Types	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-		
Ascospores	92	3800	54.3		
Aspergillus/Penicillium	-	-	-		
Basidiospores	79	3200	45.7		
Bipolaris++	-	-	-		
Chaetomium++	-	-	-		
Cladosporium	-	-	-		
Curvularia	-	-	-		
Epicoccum	-	-	-		
Fusarium++	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	-	-	-		
Pithomyces++	-	-	-		
Rust	-	-	-		
Scopulariopsis/Microascus	-	-	-		
Stachybotrys/Memnoniella	-	-	-		
Unidentifiable Spores	-	-	-		
Zygomycetes	-	-	-		
Total Fungi	171	7000	100		
Hyphal Fragment	-	-	-		
Insect Fragment	-	-	-		
Pollen	-	-	-		
Analyt. Sensitivity 600x	-	41	-		
Analyt. Sensitivity 300x	-	13*	-		
Skin Fragments (1-4)	-	1	-		
Fibrous Particulate (1-4)	-	1	-		
Background (1-5)	-	1	-		

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 08/30/2023 04:22 PM

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

EMSL

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305565

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBBURN, MA 01801
PHONE: (781) 933-8411
FAX: (781) 933-8412

Company Name: <u>EFI Global</u>			EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**				
Street: <u>155 West Street</u>			Third Party Billing requires written authorization from third party.				
City: <u>Wilmington</u>	State/Province: <u>MA</u>		Zip/Postal Code: <u>01887</u>		Country: <u>USA</u>		
Report To (Name): <u>Peter von Au</u>			Telephone #: <u>978.863.8401</u>				
Email Address: <u>peter.vonau@efiglobal.com</u>			Fax #: _____		Purchase Order: _____		
Project Name/Number: <u>Zacharyville Memorial, 01406680</u>			Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email				
U.S. State Samples Taken: <u>MA</u>		Project Zip Code: <u>01854</u>		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 checked="" 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	
Microbiology Test Codes							
M001 Air-O-Cell		M174 MoldSnap		M012 Pseudomonas aeruginosa (P/A***)		M115 Sewage Screen - Water (P/A***)	
M030 Micro 5		M032 Allergenco-D		M024 Pseudomonas aeruginosa (MFT*)		M116 Sewage Screen - Water (MPN**)	
M041 Fungal Direct Examination				M015 Heterotrophic Plate Count		M117 Sewage Screen - Swab (P/A***)	
M169 Pollen ID & Enumeration				M017 Total Coliform & E. coli (Colilert P/A***)		M013 Sewage Screen - Swab (MFT*)	
M280 Dust Characterization Level-1				M018 Total Coliform & E. coli (MFT*)		M133 Methicillin-resistant Staph. aureus (MRSA)	
M281 Dust Characterization Level-2				M114 Total Coliform & E. coli Enumeration (Colilert MPN**)		M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration	
M005 Viable Fungi- Air Samples (Genus ID & Count)				M019 Fecal Coliform (MFT*)		M014 Endotoxin Analysis	
M006 Viable Fungi- Air Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)				M020 Fecal Streptococcus (MFT*)		M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)	
M007 Culturable fungi - Surface Samples (Genus ID & Count)				M029 Enterococci (MFT*)		Other See Analytical Price Guide	
M008 Culturable fungi - Surface Samples (Includes Penicillium, Aspergillus, Cladosporium, Stachybotrys Species ID & Count)				M129 Enterococci (Enterolert P/A***)		Legionella Analysis Please use EMSL Legionella COC	
M009 Bacteria Culture Gram Stain & Count				M180 Real Time qPCR-ERMI 36 Panel			
M010 Bacteria Count & ID - 3 Most Prominent				M025 Sewage Screen -Water (MFT*)			
M011 Bacteria Count & ID - 5 Most Prominent				*MFT= Membrane Filtration Technique **MPN= Most Probable Number ***P/A= Presence/Absence			
Name of Sampler: <u>Peter von Au</u>			Signature of Sampler: <u>[Signature]</u>				
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	
A01	Field Bank	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	—	8/30/23	
A02	Outdoors		<input type="checkbox"/> P <input type="checkbox"/> NP		75L	9:30A	
A03	Cafeteria		<input type="checkbox"/> P <input type="checkbox"/> NP				
A04	Main Office, 1008		<input type="checkbox"/> P <input type="checkbox"/> NP				
A05	Gymnasium		<input type="checkbox"/> P <input type="checkbox"/> NP				
Client Sample # (s): <u>A01 - A40</u>		Total # of Samples: <u>40</u>		Samples Received Chilled? Yes / No (Lab Use Only)			
Relinquished (Client): <u>[Signature]</u>		Date: <u>8/30/23</u>		Time: <u>1320</u>			
Received (Lab): <u>[Signature]</u>		Date: _____		Time: _____			
Comments/Special Instructions: <u>SM 1320</u> <u>Wain in</u>							

REC'D
EMSL-BOSTON
AUG 30 2023

Page 1 of 3

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.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305565

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBBURN, MA 01886
PHONE: (781) 933-8411
FAX: (781) 933-8412

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

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
A06	Classroom 1038	AN	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	8/30/23 9:30A	
A07	" 1041		<input type="checkbox"/> P <input type="checkbox"/> NP				
A08	" 1043		<input type="checkbox"/> P <input type="checkbox"/> NP				
A09	" 1045		<input type="checkbox"/> P <input type="checkbox"/> NP				
A10	" 1063		<input type="checkbox"/> P <input type="checkbox"/> NP				
A11	" 1061		<input type="checkbox"/> P <input type="checkbox"/> NP				
A12	" 1066		<input type="checkbox"/> P <input type="checkbox"/> NP				
A13	" 1067		<input type="checkbox"/> P <input type="checkbox"/> NP				
A14	" 1069		<input type="checkbox"/> P <input type="checkbox"/> NP				
A15	" 1072		<input type="checkbox"/> P <input type="checkbox"/> NP				
A16	" 1074		<input type="checkbox"/> P <input type="checkbox"/> NP				
A17	" 1068		<input type="checkbox"/> P <input type="checkbox"/> NP				
A18	" 1071		<input type="checkbox"/> P <input type="checkbox"/> NP				
A19	" 1073		<input type="checkbox"/> P <input type="checkbox"/> NP				
A20	" 1075		<input type="checkbox"/> P <input type="checkbox"/> NP				
A21	" 1076		<input type="checkbox"/> P <input type="checkbox"/> NP				
A22	" 1077		<input type="checkbox"/> P <input type="checkbox"/> NP				
A23	" 1078		<input type="checkbox"/> P <input type="checkbox"/> NP				
A24	" 1079		<input type="checkbox"/> P <input type="checkbox"/> NP				
A25	" 1081		<input type="checkbox"/> P <input type="checkbox"/> NP				
A26	" 1082		<input type="checkbox"/> P <input type="checkbox"/> NP				
A27	" 1083		<input type="checkbox"/> P <input type="checkbox"/> NP				
A28	MUSIC Rm. 1097		<input type="checkbox"/> P <input type="checkbox"/> NP				

Comments/Special Instructions:

REC'D
EMSL BOSTON
AUG 30 2023

Page 2 of 3

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.

Controlled Document – COC-34 Micro R8 11/14/2017



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

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

132305565

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBBURN, MA 01886
PHONE: (781) 933-8411
FAX: (781) 933-8412

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

[illegible]



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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:	132305649-0001 A01			132305649-0002 A02 75			132305649-0003 A03 75		
	Field Blank			Outdoors			Classroom 1041		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	3	100	2.1	-	-	-
Ascospores	-	-	-	1	40	0.8	-	-	-
Aspergillus/Penicillium	-	-	-	-	-	-	10	430	55.8
Basidiospores	-	-	-	96	4100	84.2	3	100	13
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	7	300	6.2	5	200	26
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	5	200	4.1	-	-	-
Myxomycetes++	-	-	-	2	90	1.8	1	40	5.2
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	1	40	0.8	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	-	No Trace	-	115	4870	100	19	770	100
Hyphal Fragment	-	-	-	1	40	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	0	-	-	43	-	-	43	-
Analyt. Sensitivity 300x	-	0*	-	-	13*	-	-	13*	-
Skin Fragments (1-4)	-	-	-	-	-	-	-	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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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:	132305649-0004 A04 75 Classroom 1038			132305649-0005 A05 75 Classroom 1043			132305649-0006 A06 75 Classroom 1045		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	3	100	55.6	4	200	83.3	2	90	100
Basidiospores	1	40	22.2	1	40	16.7	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	1	40	22.2	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	5	180	100	5	240	100	2	90	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0007			132305649-0008			132305649-0009		
Client Sample ID:	A07			A08			A09		
Volume (L):	75			75			75		
Sample Location:	Classroom 1063			Classroom 1061			Classroom 1067		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	90	69.2	1	40	28.6	1	40	23.5
Basidiospores	-	-	-	3	100	71.4	2	90	52.9
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	1	40	23.5
Myxomycetes++	1	40	30.8	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	130	100	4	140	100	4	170	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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:	132305649-0010 A10 75 Classroom 1066			132305649-0011 A11 75 Classroom 1069			132305649-0012 A12 75 Classroom 1072		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	90	100	5	200	83.3	1	40	5.3
Basidiospores	-	-	-	1	40	16.7	11	470	62.7
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	4	200	26.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	1	40	5.3
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	2	90	100	6	240	100	17	750	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0013			132305649-0014			132305649-0015		
Client Sample ID:	A13			A14			A15		
Volume (L):	75			75			75		
Sample Location:	Classroom 1074			Classroom 1068			Classroom 1071		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	11.8	-	-	-
Aspergillus/Penicillium	2	90	47.4	4	200	58.8	2	90	69.2
Basidiospores	3	100	52.6	3	100	29.4	1	40	30.8
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	5	190	100	8	340	100	3	130	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0016			132305649-0017			132305649-0018		
Client Sample ID:	A16			A17			A18		
Volume (L):	75			75			75		
Sample Location:	Classroom 1073			Classroom 1075			Classroom 1076		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	2	90	50	2	90	39.1	3	100	25
Basidiospores	-	-	-	3	100	43.5	6	300	75
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	2	90	50	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	40	17.4	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	4	180	100	6	230	100	9	400	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0019			132305649-0020			132305649-0021		
Client Sample ID:	A19			A20			A21		
Volume (L):	75			75			75		
Sample Location:	Classroom 1077			Classroom 1078			Classroom 1079		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	3	100	5.2	-	-	-
Aspergillus/Penicillium	3	100	18.9	6	300	15.5	-	-	-
Basidiospores	10	430	81.1	15	640	33.2	5	200	14.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	20	850	44	27	1200	85.7
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	40	2.1	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	13	530	100	45	1930	100	32	1400	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0022			132305649-0023			132305649-0024		
Client Sample ID:	A22			A23			A24		
Volume (L):	75			75			75		
Sample Location:	Classroom 1081			Classroom 1083			Art Room, 1093		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	1	40	4.2	-	-	-
Aspergillus/Penicillium	-	-	-	3	100	10.5	-	-	-
Basidiospores	3	100	100	18	770	81.1	2	90	100
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	1	40	4.2	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	100	100	23	950	100	2	90	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0025			132305649-0026			132305649-0027		
Client Sample ID:	A25			A26			A27		
Volume (L):	75			75			75		
Sample Location:	Kitchen			Main Office, 1008			Classroom 2002		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	1	40	3.2	1	40	5.6	-	-	-
Aspergillus/Penicillium	4	200	15.9	4	200	28.2	-	-	-
Basidiospores	20	850	67.5	7	300	42.3	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	1	40	3.2	1	40	5.6	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	2	90	7.1	1	40	5.6	-	-	-
Myxomycetes++	1	40	3.2	2	90	12.7	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	29	1260	100	16	710	100	-	None Detect	-
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0028			132305649-0029			132305649-0030		
Client Sample ID:	A28			A29			A30		
Volume (L):	75			75			75		
Sample Location:	Classroom 2004			Room 2019, Teachers' Room			Room 2027		
Spore Types	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total	Raw Count	Count/m³	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	1	40	30.8	2	90	27.3	-	-	-
Basidiospores	2	90	69.2	5	200	60.6	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium++	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium++	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	40	12.1	-	-	-
Myxomycetes++	-	-	-	-	-	-	1	40	100
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Total Fungi	3	130	100	8	330	100	1	40	100
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	43	-	-	43	-
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.

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

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

EMSL Order: 132305649

Customer ID: EAFI66

Customer PO:

Project ID:

Attention: Peter VonAu

EFI Global, Inc.

155 West Street

Suite 6

Wilmington, MA 01887

Project: Pawtucketville Memorial / 014.06880

Phone: (978) 688-3736

Fax: (978) 688-5494

Collected Date: 09/04/2023

Received Date: 09/05/2023 09:45 AM

Analyzed Date: 09/05/2023

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

Lab Sample Number:	132305649-0031				
Client Sample ID:	A31				
Volume (L):	75				
Sample Location:	Outdoors				
Spore Types	Raw Count	Count/m³	% of Total		
Alternaria (Ulocladium)	1	40	0.5	-	-
Ascospores	7	300	3.9	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	143	6100	79.9	-	-
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	19	810	10.6	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium++	1	40	0.5	-	-
Ganoderma	6	300	3.9	-	-
Myxomycetes++	1	40	0.5	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Total Fungi	178	7630	100		
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-
Analyt. Sensitivity 600x	-	43	-	-	-
Analyt. Sensitivity 300x	-	13*	-	-	-
Skin Fragments (1-4)	-	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	-
Background (1-5)	-	1	-	-	-

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

Steve Grise, Laboratory Manager
or other Approved Signatory

Skin Fragment and Fibrous Particulate ratings are based on the percent of non-fungal material they represent: 1 (1-25%), 2 (26-50%), 3 (51-75%), or 4 (76-100%). Background ratings are based on the total area covered by non-fungal particles: 1 (1-25%), 2 (26-50%), 3 (51-75%), 4 (76-99%), or 5 (100%; overloaded, prohibiting accurate detection and quantification). High levels of background will obscure spores and other particulates, leading to underestimation. 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. 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. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA LAP, LLC-EMLAP Accredited #180179

Initial report from: 09/05/2023 01:58 PM

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

EMSL

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305649

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBBURN, MA 01801
PHONE: (781) 933-8411
FAX: (781) 933-8412

Company Name: <u>EFI Global</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**					
Street: <u>155 West Street</u>		Third Party Billing requires written authorization from third party.					
City: <u>Wilmington</u>	State/Province: <u>MA</u>	Zip/Postal Code: <u>01887</u>	Country: <u>USA</u>				
Report To (Name): <u>Peter von Au</u>		Telephone #: <u>978.863.8401</u>					
Email Address: <u>peter.vonau@efiglobal.com</u>		Fax #: _____	Purchase Order: _____				
Project Name/Number: <u>Pawtucketville Memorial, 04.06850</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email					
U.S. State Samples Taken: <u>MA</u>	Project Zip Code: <u>01854</u>	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 checked="" 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				
Microbiology Test Codes							
M001 Air-O-Cell	M174 MoldSnap	M012 <i>Pseudomonas aeruginosa</i> (P/A***)	M115 Sewage Screen - Water (P/A***)				
M030 Micro 5	M032 Allergenco-D	M024 <i>Pseudomonas aeruginosa</i> (MFT*)	M116 Sewage Screen - Water (MPN**)				
M041 Fungal Direct Examination		M015 Heterotrophic Plate Count	M117 Sewage Screen - Swab (P/A***)				
M169 Pollen ID & Enumeration		M017 Total Coliform & <i>E. coli</i> (Colilert P/A***)	M013 Sewage Screen - Swab (MFT*)				
M280 Dust Characterization Level-1		M018 Total Coliform & <i>E. coli</i> (MFT*)	M133 Methicillin-resistant <i>Staph. aureus</i> (MRSA)				
M281 Dust Characterization Level-2		M114 Total Coliform & <i>E. coli</i> Enumeration (Colilert MPN**)	M031 Rapid-growing non-TB <i>Mycobacteria</i> Detection & Enumeration				
M005 Viable Fungi- Air Samples (Genus ID & Count)		M019 Fecal Coliform (MFT*)	M014 Endotoxin Analysis				
M006 Viable Fungi- Air Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count)		M020 Fecal <i>Streptococcus</i> (MFT*)	M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)				
M007 Culturable fungi - Surface Samples (Genus ID & Count)		M029 <i>Enterococci</i> (MFT*)	Other See Analytical Price Guide				
M008 Culturable fungi - Surface Samples (Includes <i>Penicillium</i> , <i>Aspergillus</i> , <i>Cladosporium</i> , <i>Stachybotrys</i> Species ID & Count)		M129 <i>Enterococci</i> (Enterolert P/A***)	<i>Legionella</i> Analysis Please use EMSL <i>Legionella</i> COC				
M009 Bacteria Culture Gram Stain & Count		M180 Real Time qPCR-ERMI 36 Panel					
M010 Bacteria Count & ID - 3 Most Prominent		M025 Sewage Screen -Water (MFT*)					
M011 Bacteria Count & ID - 5 Most Prominent							
Name of Sampler: <u>Peter von Au</u>		Signature of Sampler: <u>[Signature]</u>					
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	
A01	Field Blank	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M021	75L	9/4/23	
A02	Outdoors		<input type="checkbox"/> P <input type="checkbox"/> NP			8:32pm	
A03	Classroom 1041 (*)		<input type="checkbox"/> P <input type="checkbox"/> NP				
A04	1038		<input type="checkbox"/> P <input type="checkbox"/> NP				
A05	1043		<input type="checkbox"/> P <input type="checkbox"/> NP				
Client Sample # (s): <u>A01 A31</u>		Total # of Samples: <u>31</u>		Samples Received Chilled? Yes / No (Lab Use Only) <u>Yes</u>			
Relinquished (Client): <u>[Signature]</u>		Date: <u>9/8/23</u>		Time: <u>11:59pm</u>			
Received (Lab):		Date: <u>P.V.</u>		Time:			
Comments/Special Instructions: <u>SM 945</u> <u>REC'D EMSL-BOSTON SEP 8 5 2023</u> <u>wait in</u>							

Page 1 of 3

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.

Controlled Document - COC-34 Micro R8 11/14/2017

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

132305649

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBURN, MA 01886
PHONE: (781) 933-8411
FAX: (781) 933-8412

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

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
A06	Classroom 1045	Air	<input type="checkbox"/> P <input type="checkbox"/> NP	M001	75L	9/4/23, 8:30 P.M.	
A07	P.V. 1045 1063		<input type="checkbox"/> P <input type="checkbox"/> NP				
A08	P.V. 1063 1061		<input type="checkbox"/> P <input type="checkbox"/> NP				
A09	P.V. 1061 1067		<input type="checkbox"/> P <input type="checkbox"/> NP				
A10	1066		<input type="checkbox"/> P <input type="checkbox"/> NP				
A11	1069		<input type="checkbox"/> P <input type="checkbox"/> NP				
A12	1072		<input type="checkbox"/> P <input type="checkbox"/> NP				
A13	1074		<input type="checkbox"/> P <input type="checkbox"/> NP				
A14	1068		<input type="checkbox"/> P <input type="checkbox"/> NP				
A15	1071		<input type="checkbox"/> P <input type="checkbox"/> NP				
A16	1073		<input type="checkbox"/> P <input type="checkbox"/> NP				
A17	1075		<input type="checkbox"/> P <input type="checkbox"/> NP				
A18	1076		<input type="checkbox"/> P <input type="checkbox"/> NP				
A19	1077		<input type="checkbox"/> P <input type="checkbox"/> NP				
A20	1078		<input type="checkbox"/> P <input type="checkbox"/> NP				
A21	1079		<input type="checkbox"/> P <input type="checkbox"/> NP				
A22	1081		<input type="checkbox"/> P <input type="checkbox"/> NP				
A23	1083		<input type="checkbox"/> P <input type="checkbox"/> NP				
A24	Art room, 1093		<input type="checkbox"/> P <input type="checkbox"/> NP				
A25	Kitchen		<input type="checkbox"/> P <input type="checkbox"/> NP				
A26	Main office, 1008		<input type="checkbox"/> P <input type="checkbox"/> NP				
A27	Classroom 2002		<input type="checkbox"/> P <input type="checkbox"/> NP				
A28	2001		<input type="checkbox"/> P <input type="checkbox"/> NP				

Comments/Special Instructions:

REC'D
EMSL-BOSTON SEP 15 2023

Page 2 of 3

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.

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS-TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*):

132305649

EMSL ANALYTICAL, INC.
5 CONSTITUTION WAY, UNIT A
WOBBURN, MA 01886
PHONE: (781) 933-8411
FAX: (781) 933-8412

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

[illegible]

Comments/Special Instructions:

REC'D
FBI BOSTON
SEP 15 2023

Page 3 of 3

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.

Controlled Document – COC-34 Micro R8 11/14/2017