



*Effective and Economical  
Environmental Solutions*

**Limited Mold Sampling  
Fairfield Public Schools  
Winston S. Churchill Elementary School  
233 Fairfield Road  
Fairfield, NJ 07004**

**Karl Environmental Group Project #: 19-0888**

**September 5, 2019**

Prepared for:  
Mr. John Porcino  
Supervisor of Buildings & Grounds  
Fairfield Public Schools  
15 Knoll Road  
Fairfield, NJ 07004

Prepared by:  
Karl Environmental Group  
20 Lauck Road  
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September 5, 2019

Mr. John Porcino  
Supervisor of Buildings and Grounds  
Fairfield Public Schools  
15 Knoll Road  
Fairfield, NJ 07004

**Re: Limited Mold Sampling  
Winston S. Churchill Elementary School  
233 Fairfield Road, Fairfield, NJ 07004  
Karl Environmental Group Project #: 19-0888**

Dear Mr. Porcino:

Thank you for selecting Karl Environmental Group ("Karl") for this project. This report details the methods and findings of the limited mold sampling performed at the Winston S. Churchill Elementary School located at 233 Fairfield Road, Fairfield, New Jersey (the "Property"), on September 4, 2019.

## 1.0 PROJECT BACKGROUND

Karl Environmental conducted limited mold sampling following complaints of a musty odor along with potential mold exposure symptoms in room 20 of the Winston S. Churchill Elementary School.

Karl Environmental Group conducted the following investigative practices at the Property:

- Visual inspection for suspected observable mold growth; and
- Air sampling and laboratory analysis for airborne mold spore concentrations;

Air sample collection and visual inspections were limited to the following locations:

- Room 20
- Room 21
- Outdoors (Parking Lot)

\*Carpet was removed within room 20 prior to mold sampling performed on September 4, 2019.



## **2.0 VISUAL INSPECTION**

Karl Environmental performed visual inspections in the areas of the Property listed in Section 1.0. The purpose of these inspections was to identify remaining wet materials or visible suspected mold growth. The inspections were limited to the observation of readily accessible areas and did not include the removal of furniture, wall coverings, other items or the inspection of ventilation systems. The inspections identified the following conditions at the Property:

- No visible mold growth was identified in the sampled areas.

## **3.0 INTRODUCTION TO MOLD**

Mold spores are found everywhere, indoors and outdoors. Some mold types are associated with wet building materials, and are known as moisture indicators, while others are more commonly associated with the outdoors in plant material or soil substrate. Like pollen and other airborne contaminants, mold spores can trigger asthma or allergy attacks as well as adversely affect those with suppressed immune systems. Individual sensitivity plays a major role in mold reactions, and spore concentrations that do not affect one individual may cause reactions in another.

Mold concentrations vary with season and other conditions, making it difficult for regulating bodies to create indices for “safe” indoor mold amounts. For those with mold sensitivities, any amount may trigger discomfort. It is therefore wise to reduce indoor mold to as low of a level as possible.

## **4.0 MOLD SAMPLING METHODOLOGY**

Karl collected two (2) indoor air sample and one (1) outdoor air sample at the Property on September 4, 2019 from the locations outlined in Section 1.0. The collection of both indoor and outdoor air samples allows for the comparison of the volume of spores in the air as well as the diversity of the sample composition to assess air quality inside the Property.

Air samples were collected using individual Allergenco-D® biocassettes and a Zefon BioPump® set to draw air at 15 liters per minute for 5 minutes per sample, resulting in a sample volume of 75 liters. Upon collection, the Allergenco-D cassettes were sealed and placed in a sterile container. Samples were shipped to CEI Labs (CEI) in Cary, North Carolina. CEI is an American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP) accredited laboratory (#103025)



## 5.0 MOLD SAMPLING RESULTS

The results of the mold air sample analysis are summarized in Table 1, below:

**Table 1: Mold Analytical Results Summary – Air Samples**

Sample I.D.	Location	Total spores/m <sup>3</sup>	Number of Species Positively Identified	Predominant Species By Percentage	Other Notable Species Present (as compared to control)
AS-01	Outdoors	15,000	6	Basidiospores (59%) Ascospores (37%)	N/A
AS-02	Room 20	17,000	6	Basidiospores (89%) Ascospores (10%)	NONE
As-03	Room 21	3,000	7	Basidiospores (76%) Ascospores (19%)	NONE

Based on the laboratory analytical results of the air samples and conditions identified during sampling, elevated mold spore concentrations were not present at the time of the sampling event. Laboratory results indicate that indoor mold concentrations and biodiversity were similar to outside air. Two (2) spores of *Aspergillus/Penicillium* were identified in AS-02 and AS-03. However, because it was identified at low concentrations, it likely does not pose a health hazard. Additionally, the spore concentrations of Basidiospores were higher in Room 20 than the outside air. This may be attributed to the open windows in Room 20 and its close proximity to the open, back door. This is not considered significant as the concentration was within the same order of magnitude as the outside air.

## 6.0 CONCLUSIONS & RECOMMENDATIONS

Based upon the observed conditions and considering the laboratory analytical mold results of samples collected from the Property, Karl Environmental is of the opinion that elevated airborne mold concentrations were not present in areas of the Property that were part of the sampling event. Based on this conclusion, the following recommendations are offered:

- Maintain indoor humidity levels between 30 and 60% at all times.
- Continue to perform regular maintenance and cleaning activities to prevent those conditions conducive to mold growth.



## 7.0 LIMITATIONS

The main purpose of the investigation outlined within this report was to identify and report signs of potential mold growth along with conditions that are conducive to mold growth as evident to the hygienist on the day of the investigation.

The investigation was a non-intrusive, visual examination and included only visible and readily accessible components and systems. This investigation was not an inspection of mechanical systems and did not attempt to identify physical defects in any component or system.

The hygienist did not dismantle and/or move equipment, systems, furniture, appliances, floor coverings, finished or fastened surfaces or components, personal property or other items to conduct this investigation or otherwise to expose concealed or inaccessible conditions. The investigation did not include destructive testing of any kind. Sampling was completed in the locations denoted in this text.

The investigation and report are not a guarantee or a warranty that the surfaces and items in the areas of investigation are mold-free, or that concealed conditions conducive to mold do not or will not exist. Problems may exist even though signs of such may not be present during an investigation.

## 8.0 CLOSING

Thank you for using Karl Environmental to assist you with this project. Please do not hesitate to call if you have any questions relating to this report or for any other environmental health and safety concerns.

Respectfully submitted,  
**Karl Environmental Group**

*Aja Slater*

---

Aja Slater  
Industrial Hygienist

### Attachments:

- A – Laboratory Analytical Report
- B – Mold Glossary



**Attachment A**  
**Laboratory Analytical Report**

# **Microbial (Fungal) Spore Air Counts & Identification**

**Church Hill School  
Stevenson School**

**Fairfield Board of Education**

**Report Date**  
August 22, 2019

*Prepared by*

**AERO Environmental Services Inc.**

275 Route 10 East, Suite 220-306

Succasunna, NJ 07876

973-920-9061 (Tel)

973-529-0335(Fax)

Microbial spores are literally everywhere. Levels rise and fall with the season. Microbials grow and produce their spore wherever there is enough moisture and nutrients. They exist in the air we breathe, on surfaces we touch, and flourish within our school buildings and homes.

Currently there are no widely accepted protocols or regulations regarding microbial air or surface sampling. In the absence of standards, we believe common sense should prevail. We typically expect indoor spore counts not be significantly higher than outdoor spore counts, with the same general distribution of spore types present. A building with open doors and windows with heavy foot traffic may average 95 - 100% of the outdoor level. In addition, dusty interiors may exceed 100% of the outdoors to some degree, but will still mirror the outdoor distribution of spore types.

The presence or absence of a few spore types in small numbers should not be considered abnormal. In addition to the normal influx of outdoor organisms into a building, additional organisms can grow within the building. This occurs when there is just the right combination of factors, including the proper temperature, humidity and material on which the organisms can grow. Some of these conditions are inherent to the building structure while others are related to the furnishings.

## **SAMPLING & OBSERVATIONS**

No visible mold was found in any of the locations sampled. The school buildings were dry and no roof leaks found.

Mold air spore levels were much lower indoors as compared to outdoors. Similar spore types were found indoors versus outdoors. This indicates a source of mold was not found in any of the schools when tested.

The brown water stained ceiling tile in the Nurses room at Stevenson School was not mold.

## **CONCLUSION & RECOMMENDATIONS**

Based on the air sampling performed, **elevated levels of fungal air spores were not detected in any of the school buildings** as compared to the outdoor samples collected. Similar mold spore types were found inside and outside.

The brown water stained ceiling tile in the Nurses room at Stevenson School was not mold.

**These results indicate a source of mold was not present in any of the school buildings tested. The school buildings may be occupied by students and staff.**





# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854  
Phone/Fax: (732) 981-0550 / (732) 981-0551  
<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

Order ID: 051903773  
Customer ID: AERO50  
Customer PO:  
Project ID:

**Attn:** Michael Berta  
AERO Environmental Services, Inc  
275 Route 10 East  
Suite 220-306  
Succasunna, NJ 07876

Phone: (973) 920-9061  
Fax: (973) 529-0335  
Collected: 07/24/2019  
Received: 07/25/2019  
Analyzed: 07/31/2019

**Proj:** ChurchHill-AOC

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

Lab Sample Number:	051903773-0001	051903773-0002	051903773-0003	051903773-0004	
Client Sample ID:	CA-1	CA-2	CA-3	CA-4	
Volume (L):	75	75	75	75	
Sample Location:	Rm 29	Rm 28	Rm 26	Outside Front Of	
Spore Types	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	
Alternaria (Ulocladium)	-	-	-	40	
Ascospores	410	570	500	5740	
Aspergillus/Penicillium	80	40	80	300	
Basidiospores	1500	1880	1900	16900	
Bipolaris++	-	-	-	40	
Chaetomium	-	-	-	-	
Cladosporium	340	200	300	1300	
Curvularia	-	-	-	80	
Epicoccum	-	-	-	-	
Fusarium	-	-	-	-	
Ganoderma	-	-	-	200	
Myxomycetes++	-	-	-	-	
Pithomyces++	-	-	-	-	
Rust	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
<b>Total Fungi</b>	<b>2330</b>	<b>2690</b>	<b>2780</b>	<b>24600</b>	
Hyphal Fragment	-	-	-	-	
Insect Fragment	-	-	-	-	
Pollen	-	-	-	40	
Analyt. Sensitivity 600x	41	41	41	41	
Analyt. Sensitivity 300x	13*	13*	13*	13*	
Skin Fragments (1-4)	1	1	2	1	
Fibrous Particulate (1-4)	1	1	2	1	
Background (1-5)	1	1	1	1	

Chaoyut Sae Lao, Laboratory Manager  
or Other Approved Signatory

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

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\* Denotes particles found at 300X. \* Denotes not detected. Due to method skipping 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. Piscataway, NJ AHA-LAP, LLC-EM AP Accredited #187035

Initial report from: 07/31/2019 15:34:09

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



Microbiology Laboratory Chain of Custody

EMSL Order Number (Lab Use Only):

051903773

Corporate - Cinnaminson, NJ  
 200 Route 130 North  
 Cinnaminson, NJ 08077  
 PHONE: 1-800-220-3675  
 FAX: (856) 786-5974

Company: AERO Environmental Services		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different	
Street: 275 Rt 10 East, 220-306		If Bill to is Different note instructions in Comments**	
City/State/Zip: Succasunna, NJ 07876			
Report To (Name): Michael Berta		Fax: 973 529 0335	
Telephone: 973 920 9061		Email Address: mberta@aeroenvironmental.net	
Project Name/Number: Church Hill - AOC			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ

Turnaround Time (TAT) Options\* - Please Check

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

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

- Non Culturable Air Samples (Spore Traps)**
- M001 Air-O-Cell
  - M049 BioSIS
  - M030 Micro 5
  - M173 Allegro M2
  - M003 Burkard
  - M174 MoldSnap
  - M004 Allergenco
  - M043 Cyclex
  - M176 Relle Smart
  - M032 Allergenco-D
  - M002 Cyclex-d
  - M130 Via-Cell
  - M172 Versa Trap

- Other Microbiology Test Codes**
- M041 Fungal Direct Examination
  - M005 Viable Fungi ID and Count
  - M006 Viable Fungi ID and Count (Speciation)
  - M007 Culturable Fungi
  - M008 Culturable Fungi (Speciation)
  - M009 Gram Stain Culturable Bacteria
  - M010 Bacterial Count and ID - 3 Most Prominent
  - M011 Bacterial Count and ID - 5 Most Prominent
  - M013 Sewage Contamination in Buildings
  - M014 Endotoxin Analysis
  - M015 Heterotrophic Plate Count
  - M180 Real Time Q-PCR-ERMI 36 Panel
  - M018 Total Coliform (Membrane Filtration)
  - M020 Fecal Streptococcus (Membrane Filtration)
  - M210-215 Legionella Detection
  - M026 Recreational Water Screen
  - M027 Mycotoxin Analysis
  - M029 Enterococci
  - M019 Fecal Coliform
  - M133 MRSA Analysis
  - M028 Cryptococcus neoformans Detection
  - M120 Histoplasma capsulatum Detection
  - M033-39 Allergen Testing
  - M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
  - Other See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: Michael Berta

Signature of Sampler: *Michael Berta*

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
CA-1	Rm 29	Air	M001	75L	7/24/19 15:04/1509
CA-2	Rm 28	Air	M001	75L	7/24/19 15:13/1518
CA-3	Rm 26	Air	M001	75L	7/24/19 15:23/1528
CA-4	Outside Front of School	Air	M001	75L	7/24/19 15:33/1538

Client Sample # (s): CA-1, CA-4      Total # of Samples: 4

Relinquished (Client): *M Berta*      Date: 7/24/19      Time: 1730

Received (Client):      Date:      Time:

Comments/Special Instructions:

RECEIVED  
 8/3 AM  
 JUL 25 2019 X3  
 BY *Col Fedu*  
 EMSL PISCATAWAY  
 795747423969



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854  
Phone/Fax: (732) 981-0550 / (732) 981-0551  
<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

Order ID: 051903777  
Customer ID: AERO50  
Customer PO:  
Project ID:

**Attn:** Michael Berta  
AERO Environmental Services, Inc  
275 Route 10 East  
Suite 220-306  
Succasunna, NJ 07876

**Phone:** (973) 920-9061  
**Fax:** (973) 529-0335  
**Collected:** 07/24/2019  
**Received:** 07/25/2019  
**Analyzed:** 07/31/2019

**Proj:** Stevenson-AOC

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

Lab Sample Number:	051903777-0001	051903777-0002	051903777-0003	051903777-0004	
Client Sample ID:	SA-1	SA-2	SA-3	SA-4	
Volume (L):	75	75	75	75	
Sample Location:	Rm 30	Rm 22 Library	Rm 13	Outside Front Of	
Spore Types	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	Count/m <sup>3</sup>	
Alternaria (Ulocladium)	-	-	-	-	
Ascospores	500	530	400	3900	
Aspergillus/Penicillium	-	40	40	530	
Basidiospores	600	490	530	12300	
Bipolaris++	-	-	-	-	
Chaetomium	-	-	-	-	
Cladosporium	40	80	80	1100	
Curvularia	-	-	-	-	
Epicoccum	-	-	-	-	
Fusarium	-	-	-	-	
Ganoderma	-	40	40	400	
Myxomycetes++	-	-	-	100	
Pithomyces++	-	-	-	-	
Rust	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
Beltranla	-	-	-	100	
Polythrincium	-	-	-	40	
<b>Total Fungi</b>	<b>1140</b>	<b>1180</b>	<b>1090</b>	<b>18470</b>	
Hyphal Fragment	-	-	-	-	
Insect Fragment	40	-	-	-	
Pollen	-	40	-	100	
Analyt. Sensitivity 600x	41	41	41	41	
Analyt. Sensitivity 300x	13*	13*	13*	13*	
Skin Fragments (1-4)	2	1	1	1	
Fibrous Particulate (1-4)	2	1	1	1	
Background (1-5)	1	1	1	1	

Chaiyut Sae Lao, Laboratory Manager  
or Other Approved Signatory

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

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\* Denotes particles found at 300X. \* Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. 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. Piscataway, NJ AIHA-LAP, LLC-EM-LAP Accredited #167036

Initial report from: 07/31/2019 15:36:06

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



Microbiology Laboratory Chain of Custody

EMSL Order Number (Lab Use Only):

051903777

Corporate - Cinnaminson, NJ  
 200 Route 130 North  
 Cinnaminson, NJ 08077  
 PHONE: 1-800-220-3675  
 FAX: (856) 786-5974

Company: AERO Environmental Services		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different	
Street: 275 Rt 10 East, 220-306		If Bill to is Different note Instructions in Comments**	
City/State/Zip: Succasunna, NJ 07876			
Report To (Name): Michael Berta		Fax: 973 529 0335	
Telephone: 973 920 9061		Email Address: mberta@aeroenvironmental.net	
Project Name/Number: <u>Stevenson - AOC</u>			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ

Turnaround Time (TAT) Options\* - Please Check

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

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

- Non Culturable Air Samples (Spore Traps)**
- M001 Air-O-Cell
  - M049 BioSIS
  - M030 Micro 5
  - M173 Allegro M2
  - M003 Burkard
  - M174 MoldSnap
  - M004 Allergenco
  - M043 Cyclex
  - M176 Relle Smart
  - M032 Allergenco-D
  - M002 Cyclex-d
  - M130 Via-Cell
  - M172 Versa Trap

- Other Microbiology Test Codes**
- M041 Fungal Direct Examination
  - M005 Viable Fungi ID and Count
  - M006 Viable Fungi ID and Count (Speciation)
  - M007 Culturable Fungi
  - M008 Culturable Fungi (Speciation)
  - M009 Gram Stain Culturable Bacteria
  - M010 Bacterial Count and ID - 3 Most Prominent
  - M011 Bacterial Count and ID - 5 Most Prominent
  - M013 Sewage Contamination in Buildings
  - M014 Endotoxin Analysis
  - M015 Heterotrophic Plate Count
  - M180 Real Time Q-PCR-ERMI 36 Panel
  - M018 Total Coliform (Membrane Filtration)
  - M020 Fecal Streptococcus (Membrane Filtration)
  - M210-215 Legionella Detection
  - M026 Recreational Water Screen
  - M027 Mycotoxin Analysis
  - M029 Enterococci
  - M019 Fecal Coliform
  - M133 MRSA Analysis
  - M028 Cryptococcus neoformans Detection
  - M120 Histoplasma capsulatum Detection
  - M033-39 Allergen Testing
  - M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
  - Other See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: Michael Berta Signature of Sampler: [Signature]

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
SA-1	Rm 30	Air	M001	75L	7/24/19 1407/1412
SA-2	Rm 22 Library	Air	M001	75L	7/24/19 1418/1423
SA-3	Rm 13	Air	M001	75L	7/24/19 1426/1431
SA-4	Outside front of school	Air	M001	75L	7/24/19 1438/1443

Client Sample # (s): SA-1 - SA-4 Total # of Samples: (4)

Relinquished (Client): [Signature] Date: 7/24/19 Time: 1730

Received (Client): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments/Special Instructions:

RECEIVED  
 9:30 AM  
 JUL 25 2019 X3

BY [Signature]  
 EMSL PISCATAWAY  
 79574423969



# EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854  
Phone/Fax: (732) 981-0550 / (732) 981-0551  
<http://www.EMSL.com> / [piscatawaylab@emsl.com](mailto:piscatawaylab@emsl.com)

Order ID: 051903775  
Customer ID: AERO50  
Customer PO:  
Project ID:

**Attn:** Michael Berta  
AERO Environmental Services, Inc  
275 Route 10 East  
Suite 220-306  
Succasunna, NJ 07876  
**Phone:** (973) 920-9061  
**Fax:** (973) 529-0335  
**Collected:** 07/24/2019  
**Received:** 07/25/2019  
**Analyzed:** 07/30/2019  
**Proj:** Stevenson-Swab

## Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method MICRO-SOP-200)

<b>Lab Sample Number:</b>	051903775-0001				
<b>Client Sample ID:</b>	SSW-1				
<b>Sample Location:</b>	Nurse Office, Ceiling Surface, Brown Stain				
<b>Spore Types</b>	<b>Category</b>	-	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-
Fibrous Particulate	Rare	-	-	-	-

Category: Count/per area analyzed - Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

- Denotes Not Detected.  
++ = Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.  
\* = Sample contains fruiting structures and/or hyphae associated with the spores.

Chaiyut Sae Lao, Laboratory Manager  
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

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. Piscataway, NJ AIHA-LAP, LLC—EMLAP Accredited #167035

Initial report from: 07/31/2019 10:37:35

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



Microbiology Laboratory Chain of Custody

EMSL Order Number (Lab Use Only):

051903775

Corporate - Cinnaminson, NJ  
 200 Route 130 North  
 Cinnaminson, NJ 08077  
 PHONE: 1-800-220-3675  
 FAX: (856) 786-5974

Company: AERO Environmental Services		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different	
Street: 275 Rt 10 East, 220-306		If Bill to is Different note instructions in Comments**	
City/State/Zip: Succasunna, NJ 07876		Third Party Billing requires written authorization from third party	
Report To (Name): Michael Berta		Fax: 973 529 0335	
Telephone: 973 920 9061		Email Address: mberta@aeroenvironmental.net	
Project Name/Number: <u>Stevenson-Swab</u>			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NJ

Turnaround Time (TAT) Options\* - Please Check

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

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

**Non Culturable Air Samples (Spore Traps)**

• M001 Air-O-Cell	• M173 Allegro M2	• M004 Allergenco	• M032 Allergenco-D	• M172 Versa Trap
• M049 BioSIS	• M003 Burkard	• M043 Cyclex	• M002 Cyclex-d	
• M030 Micro 5	• M174 MoldSnap	• M176 Relle Smart	• M130 Via-Cell	

**Other Microbiology Test Codes**

• M041 Fungal Direct Examination	• M014 Endotoxin Analysis	• M029 Enterococci
• M005 Viable Fungi ID and Count	• M015 Heterotrophic Plate Count	• M019 Fecal Coliform
• M006 Viable Fungi ID and Count (Speciation)	• M180 Real Time Q-PCR-ERMI 36	• M133 MRSA Analysis
• M007 Culturable Fungi	• Panel	• M028 <i>Cryptococcus neoformans</i> Detection
• M008 Culturable Fungi (Speciation)	• M018 Total Coliform (Membrane Filtration)	• M120 <i>Histoplasma capsulatum</i> Detection
• M009 Gram Stain Culturable Bacteria	• M020 Fecal <i>Streptococcus</i> (Membrane Filtration)	• M033-39 Allergen Testing
• M010 Bacterial Count and ID - 3 Most Prominent	• M210-215 <i>Legionella</i> Detection	• M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
• M011 Bacterial Count and ID - 5 Most Prominent	• M026 Recreational Water Screen	• Other See Analytical Price Guide
• M013 Sewage Contamination in Buildings	• M027 Mycotoxin Analysis	

Preservation Method (Water):

Name of Sampler: Michael Berta      Signature of Sampler: [Signature]

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
SSW-1	Nurse office Ceiling Surface Brown stain	Swab	MOY1	1 sq. in	7/24/19 1451

Client Sample # (s): SSW-1      Total # of Samples: ①

Relinquished (Client): [Signature]      Date: 7/24/19      Time: 1730

Received (Client):      Date:      Time:

Comments/Special Instructions:

RECEIVED  
 9:35 AM  
 JUL 25 2019  
 X3