

November 12, 2021

Mr. Charles O'Brien
Director of Facilities Management and Capital Planning
Massachusetts Trial Courts
Suffolk County Courthouse
3 Pemberton Square, Suite 106
Boston, MA 02108

Ref: AC Unit Duct Inspection Mold Sampling Assessments

Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts

October 4 – October 21, 2021

ann D. Eckmann

TRC Project 458085

Dear Mr. O'Brien:

Attached please find the report of AC unit duct inspection mold sampling conducted by TRC Environmental Corporation (TRC) during the period from 10/4/21 to 10/21/21.

Please don't hesitate to contact us if you have questions or if we may be of further assistance.

Sincerely,

TRC

Ann D. Eckmann, CIH Industrial Hygiene Group Leader

Reviewed by:

Harry M. Neill, CIH

Harry M. Neill

Director, Indoor Air Quality and Microbiological Services

Enc.



Results of Microbial Sampling during Duct Inspection

Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Prepared for:

Facilities Management and Capital Planning Massachusetts Trial Courts Suffolk County Courthouse 3 Pemberton Square, Suite 106 Boston, Massachusetts 02108

Prepared by:

TRC Environmental Corporation 300 Wildwood Avenue, Suite 230 Woburn, Massachusetts 01801

Report Date:

November 12, 2021

TRC Project:

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EXECUTIVE SUMMARY

During the period from 10/4/21 to 10/21/21, TRC Environmental Corporation (TRC) was retained by Massachusetts Trial Courts/Facilities Management and Capital Planning to collect samples from the interior surfaces of ventilation ducts for determination of mold* growth during inspections of supply and return air ventilation ducts in the Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts.

Inspections of the ducts were performed by DCAMM's contractor, Air Duct Services & Restoration, Braintree, Massachusetts. TRC's scope of work was limited to the collection of samples in locations where Air Duct Services & Restoration gained access to interior duct surfaces at access panels or through terminal louvers/diffusers of the duct system.

TRC understands that the purpose of the sampling was to provide information to relevant parties regarding the potential presence of mold in ventilation ducts.

Background Information

There are four primary air handling units, AHU-1, AHU-2, AHU-3 and AHU-4 that service the Courthouse. Building maintenance staff refer to these as AC1, AC2, AC3 and AC4, respectively, and the air handling units will be described using the latter terms in this report. Unit AC1 services all the courtrooms. Unit AC2 services all Floor 4 locations outside of the Floor 4 courtrooms. Unit AC3 services the west side of building locations outside of the courtrooms on the Ground floor through Floor 3, and unit AC4 services the east side of building locations outside of the courtrooms on the Ground floor through Floor 3. TRC understands that supply and return air moved by these air handling units are fully ducted. Exhaust fans, smaller ventilation units and fan coil units may also serve specific areas throughout the Courthouse. Note that while internal duct insulation was observed in some of the inspected duct locations, no internal insulation was observed at many of the inspected duct locations.

Note that mold/fungi are ubiquitous in the environment. While some amounts of settled mold spores and airborne mold are expected in typical indoor environments, a concern may arise when there are building conditions such as dampness/condensation that cause mold to grow on indoor substrates or within air handling systems. Therefore, the detection of mold growth on the surface samples is a potential concern; however, the results of surface sampling for mold in air ducts should be interpreted with caution because mold detected on a duct surface is not necessarily correlated with airborne concentrations of mold in the occupied space.

Results

Mold growth was identified in a portion of the samples collected from supply and/or return air ducts on every floor of the building. Many of the test locations included uninsulated ducts, which appeared to be more prevalent than those with internal insulation. Proportionately, the greatest number of positive mold growth results were from ducts associated with AC3 and AC4, which service the east and west sides, respectively of the Ground floor through Floor 3. Proportionately, the least amount of positive mold growth results were from ducts associated with AC2 (Floor 4 locations outside of the courtrooms) and AC1 (servicing courtrooms on all floors). These results are not predictive of, or correlated with, all locations within the duct system or airborne mold spore concentrations in the building.

Recommendations

Based on the surface sampling results, it would be prudent to conduct duct maintenance procedures to include duct cleaning and removal of internal duct insulation where it is present. Cleaning methods, materials and scheduling should be described in a written work plan to ensure that a) the work is conducted with minimum possible disruption and protection of building occupants, and b) the cleaning and post-cleaning inspection methods are consistent with current industry standards. These standards include, but are not necessarily limited to, the National Air Duct Cleaning Association (NADCA) document "Assessment, Cleaning & Restoration of HVAC Systems" and the American National Standards Institute (ANSI) Institute of Inspection, Cleaning and Restoration Certification (IICRC) document "ANSI/IIRC S520: Standard and Reference Guide for Professional Mold Remediation".

*For the purposes of this report, the terms "mold" and "fungi" may be used interchangeably.



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1.0 INTRODUCTION AND BACKGROUND INFORMATION

During the period from October 4, 2021 through October 21, 2021, TRC Environmental Corporation (TRC) collected samples of surface dust for microbial analysis at the Roderick L. Ireland Courthouse, 50 State Street, Springfield, Massachusetts (the Courthouse). The sampling was conducted in conjunction with inspections of ventilation ducts performed by ductwork being performed by DCAMM's contractor, Air Duct Services & Restoration, Braintree, Massachusetts. The sampling was requested by Facilities Management and Capital Planning/Massachusetts Trial Courts due to concerns about indoor air quality and to assess the possible presence of mold on interior surfaces of the ventilation ducts.

TRC's scope of work was limited to the collection of samples in locations where Air Duct Services & Restoration gained access to interior duct surfaces at access panels or through terminal louvers/diffusers of the duct system. The samples were submitted to an independent laboratory to determine if mold* growth is present in the sampled locations.

Ventilation in the Courthouse is primarily serviced by four air handling unit units, referred to in this report as AC1, AC2, AC3 and AC4. Appendix 1 contains a summary of the sample locations and test results. Appendix 2 contains the associated analytical laboratory reports. Appendix 3 contains site plans depicting the approximately ventilation zones serviced by the air handling units as reported to TRC by the Massachusetts Trial Courts/Facilities Management and Capital Planning and Air Duct Services & Restoration during the duct inspection.

^{*}For the purposes of this report, the terms "mold" and "fungi" may be used interchangeably.



2.0 INVESTIGATIVE STRATEGY

All collected samples were submitted to EMSL Analytical, Inc. (EMSL) in Woburn, Massachusetts where they were analyzed using direct microscopic fungal examination methods. EMSL participates in the American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP), certification #180179).

The laboratory reports the quantity of spores detected on the samples, and the presence of fungal growth structures. Mold growth is present when growth structures are reported on the laboratory report and are indicated by asterisks (*---*) on the sample results.

Depending on the ability to access the interior duct surface, samples were variously collected from side walls, collars and lower horizontal surfaces within the ducts.

2.1 Tape Lift Sampling

Surface (tape-lift) sampling of potential or suspect mold contamination on interior duct surfaces was conducted using the tape-lift method. Tape-lift sampling is a technique that is used to collect material to determine the presence of fungal growth on a surface. Tape-lift sampling was performed using clear transparent tape, which was applied to a suspect surface and then transferred to a microscopic slide.

2.2 Settled Dust Sampling

In a few locations, surface debris was collected into clean plastic bags for submittal to the laboratory.

2.3 Results Interpretation

The following information was used to interpret the surface sampling results.

Tape-Lift and	Settled Dust Samples – Laboratory Re	eport Interpretation
	Number of Spores Observed on	
Estimated Result	Sample Area	Indication of Growth
Rare	1–10	Not likely, especially if no growth structures detected on sample
Low	11 - 100	Possible, not necessarily likely if no growth structures detected on sample
Medium	101 – 1,000	A probable source, not necessarily at the test location if no growth structures detected on sample
High	> 1,000	A likely source, not necessarily at the test location if no growth structures detected on sample

Notes: A potential source exists if growth structures are detected on the sample; however, small, isolated findings of mold growth structures may be due to being drawing into the air distribution system from the outdoor air, or by tracking or otherwise carrying mold into the building.

Mold growth structures are denoted by asterisks (*---*) around the mold result in the laboratory report.

The spore population mix is also important in results interpretation. When one type of spore predominates, or species consistent with long-term water damage are reported, an indoor source may exist.



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Additional notes on spore types:

Note that certain spore types (e.g., *Stachybotrys* sp., *Ulocladium* sp.) are associated with long-term water damage in buildings. None of these spore types were detected on surface samples during this assessment.

Aspergillus/Penicillium sp.

Very common fungi that can be found in decaying plant materials and soils. They can grow well on a wide range of building materials in indoor environments and certain species of these spore types suggest the presence of high humidity conditions and/or water-damaged building materials.

Note that although Aspergillus/Penicillium spore types were detected during TRC's previous assessments of the Courthouse room surfaces where excess relative humidity during the summer months was determined to be the likely cause of mold on building surfaces, no Aspergillus/Penicillium spore types were detected in any of the surface samples collected from the ventilation ducts during this assessment.

Aureobasidium sp.

Very common indoor and outdoor fungi. Commonly associated with soils, fresh water, estuaries, fruit and wood. Indoors the spores are frequently found where moisture accumulates, especially bathrooms and kitchens, on shower curtains, tile grout, window sills, textiles, and liquid wastes.

Basidiospores

Very common outdoor fungi associated with wood or wooded areas and also includes the mushrooms and shelf fungi. Spores can easily be spread with wind/airflow. The spores are released in the outdoor environment, especially during periods of high humidity and following rain.

Cladosporium sp.

One of the most common indoor and outdoor species. Commonly found in soil and plant debris as well as on the leaf surfaces of living plants. The outdoor airborne concentrations are lower in the winter and often relatively high in the summer, especially in high humidity. It can grow well on a wide range of building materials in indoor environments and is a spore type consistent with periodic condensation conditions.

2.4 Test Locations

TRC collected samples in locations accessed for inspection by Air Duct Services & Restoration, as requested by Facilities Management and Capital Planning/Massachusetts Trial Courts.



3.0 RESULTS AND DISCUSSION

A summary of the sampling results is included as Appendix 1 and the laboratory analytical reports are included as Appendix 2. Appendix 3 contains site plans indicating the approximately air handling unit zones as described by the Massachusetts Trial Courts/Facilities Management and Capital Planning.

The results are further summarized below:

	Summary of Ventilation Ducts Surface Sampling Results Roderick L. Ireland Courthouse, Springfield, Massachusetts October 4 – October 21, 2021											
Description	AC1	AC2	AC3	AC4								
General Service Zone	All courtrooms	Floor 4 locations outside of courtrooms	Ground through Floor 3 east side locations outside courtrooms	Ground through Floor 3 west (river) side locations outside courtrooms								
Number of Samples Collected	8 – supply air <u>6 – return air</u> 14 total	11 supply air 11 return air 22 total	23 supply air 28 return air 51 total	20 supply air 18 return air 38 total								
Number with identified fungal growth structures	3 – supply air 2 – return air 5 total	4 supply air 0 return air 4 total	23 supply air 14 return air 37 total	20 supply air 5 return air 25 total								
Number with normal spore deposition	5 – supply air 4 -return air 9 total	7 supply air 10 return air 17 total	0 supply air 14 return air 14 total	0 supply air 13 return air 13 total								
Percent of total with no fungal growth detected	64 %	82%	27%	34%								
Additional results		Medium deposition of Cladosporium sp. on one return air sample with no growth structures reported	4 of the test locations had "low" mold growth reported	4 of the test locations had "low" mold growth reported Medium deposition of Cladosporium sp. on one return air sample with no growth structures reported								
Comments	AC1 ducts sampled on Floors 3 and 4.	AC2 ducts sampled on Floor 4, the dedicated service zone.	AC3 ducts sampled on Garage Level, Plaza, Floor 2 and Floor 3.	AC4 ducts sampled on Garage Level, Plaza and Floor 3.								

The results suggest that supply air ducts are more likely than return air ducts to have sample results showing the presence of mold growth.

Note that the results of surface sampling for mold in air ducts should be interpreted with caution because mold detected on a duct surface is not correlated with airborne concentrations of mold in the occupied space. These results are not predictive of, or correlated with, airborne mold spore concentrations in the building.



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For example, while Aspergillus/Penicillium was the predominant spore type detected during TRC's initial assessment of the Courthouse, when excess relative humidity during the summer months was determined to be the likely cause of mold growth on room surfaces, no Aspergillus/Penicillium spore types were detected in any of the samples collected from interior ventilation duct surfaces during this assessment. Cladosporium sp. was detected both on room surface samples and interior duct surface samples during this and previous samplings conducted by TRC at the Courthouse. Aureobasidium sp. was detected only on interior duct surfaces during this assessment but was not detected during previous samplings conducted by TRC at the Courthouse.



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4.0 RECOMMENDATIONS

Based on the surface sampling results, it would be prudent to conduct duct maintenance procedures to include duct cleaning and removal of internal duct insulation where it is present.

Cleaning methods, materials and scheduling should be described in a written work plan to ensure that a) the work is conducted with minimum possible disruption to and protection of building occupants, and b) the cleaning and post-cleaning inspection methods are consistent with current industry standards for protecting workers and the building environment from the potential release of excess mold spores during duct cleaning.

At minimum, the following industry standards should be considered in developing the work plan:

- National Air Duct Cleaning Association (NADCA), ACR, "Assessment, Cleaning, & Restoration of HVAC Systems," ACR 2013.
- Recognition, Evaluation, and Control of Indoor Mold, Second Edition, American Industrial Hygiene Association
- New York City Department of Health and Mental Hygiene, Bureau of Environmental & Occupational Disease Epidemiology, "Guidelines on Assessment and Remediation of Fungi in Indoor Environments".
- American Conference of Governmental Industrial Hygienists (ACGIH), "Bioaerosols: Assessment and Control", Chapter 15: Remediation of Microbial Contamination.
- American National Standards Institute (ANSI) Institute of Inspection, Cleaning and Restoration Certification (IICRC), "ANSI/IIRC S520: Standard and Reference Guide for Professional Mold Remediation Third Edition".



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5.0 LIMITATIONS

The purpose of TRC's sampling was to collect and analyze sampled of surface dust within ducts in locations inspected by Air Duct Services & Restoration. TRC's sampling was limited to immediately accessible locations at the inspection access points. These results are not necessarily predictive of, or correlated with, all locations within the duct system.

TRC has performed the tasks set forth above in a thorough and professional manner consistent with industry standards. TRC cannot guarantee and does not warrant that this limited assessment has revealed all potential adverse environmental conditions affecting the site.

No expressed or implied representation or warranty is included in this report except that the services were performed within the limits of the scope of work authorized by the client and the encountered site conditions.



Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021

Appendix 1 Summary of the Microbial Air and Surface Sampling Results



Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021 Appendix 1, Page 1 of 10

Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General Impression
10/12/2021	3	Hall at stair #2	AC1	Uninsulated	Return	Acess panel	TL-3	No	
10/12/2021	3	Women's room 389	AC1	Uninsulated	Supply	Acess panel	TL-1	No	
10/12/2021	3	Men's room 390	AC1	Uninsulated	Supply	Acess panel	TL-2	No	
10/12/2021	3	Hall at stair #3	AC1	Uninsulated	Supply	Acess panel	TL-5	No	
10/13/2021	3	Hall at room 320	AC1	Uninsulated	Return	Acess panel	TL-1	Yes	Cladosporium
10/12/2021	3	Hall at stair #1	AC1	Uninsulated	Return	Acess panel	TL-7	Yes	Aureobasidium, Cladosporium
10/4/2021	4	Courtroom 1	AC1	Uninsulated	Return	Lateral louver	B-1	No	
10/5/2021	4	Hall at stair #1	AC1	Uninsulated	Return	Acess panel	TL-2	No	
10/5/2021	4	Hall at courtroom 2	AC1	Insulated	Supply	Acess panel	TL-3	No	
10/5/2021	4	Hall at room 419	AC1	Insulated	Supply	Acess panel	TL-5	No	
10/6/2021	4	Hall at stair #2	AC1	Insulated	Supply	Louver	TL-1	No	
10/6/2021	4	Hall at stair #2	AC1	Uninsulated	Return	Acess panel	TL-2	Yes	Cladosporium
10/4/2021	4	Hall at elevator #2	AC1	Insulated	Supply	Access panel	TL-3	Yes	Aureobasidium, Cladosporium
10/6/2021	4	Hall at room 453	AC1	Insulated	Supply	Acess panel	TL-3	Yes	Cladosporium

Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General
	7 1001	Jury Pool room 446				, , , , , , , , , , , , , , , , , , ,			
10/7/2021	4	southwest near stair #1	AC2	Insulated	Return	Louver	TL-2	No	
10/4/2021	4	Room 427	AC2	Uninsulated	Return	Access panel	B-2	No	
10/4/2021	4	Registry of Probate	AC2	Uninsulated	Return	Louver	TL-7	No	
10/5/2021	4	Room 426	AC2	Uninsulated	Return	Acess panel	TL-1	No	Medium deposition of Cladosporium but no fungal growth structures
10/6/2021	4	Registry of Deeds room 400 at room 408A	AC2	Uninsulated	Return	Louver	TL-7	No	
10/6/2021	4	Registry of Deeds room 450	AC2	Uninsulated	Return	Louver	TL-8	No	
10/6/2021	4	Registry of Deeds hall at room 415	AC2	Uninsulated	Return	Louver	TL-9	No	
10/7/2021	4	Registry of Deeds room 411	AC2	Uninsulated	Return	Louver	TL - 1	No	
10/7/2021	4	Jury Pool room 446 at men's room	AC2	Uninsulated	Return	Louver	TL-3	No	
10/7/2021	4	Jury Pool room 446 at 446D	AC2	Uninsulated	Return	Louver	TL-5	No	
10/7/2021	4	Jury Pool room 446 - 446D	AC2	Uninsulated	Return	Louver	TL-7	No	
10/4/2021	4	Probate at room 444	AC2	Insulated	Supply	Access panel	TL-4	No	

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Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General
10/4/2021	4	Registry of Probate	AC2	Insulated	Supply	Louver	TL-5	No	
10/6/2021	4	Registry of Deeds room 403	AC2	Insulated	Supply	Access panel	TL-6	No	
10/7/2021	4	Jury Pool room 446 north corner	AC2	Insulated	Supply	Louver	TL-6	No	
10/4/2021	4	Room 426	AC2	Uninsulated	Supply	Louver	TL-1	No	
10/4/2021	4	Room 427	AC2	Uninsulated	Supply	Louver	TL-2	No	
10/4/2021	4	Registry of Probate	AC2	Uninsulated	Supply	Louver	TL-6	No	
10/5/2021	4	Room 426	AC2	Insulated	Supply	Access panel	TL-4	Yes	Cladosporium
10/7/2021	4	Jury Pool room 446 at center of room	AC2	Insulated	Supply	Louver	TL-4	Yes	Cladosporium
10/6/2021	4	Registry of Deeds room 407	AC2	Uninsulated	Supply	Louver	TL-4	Yes	Cladosporium
10/6/2021	4	room 400 at room	۸۲۵	Uninculated	Supply	Louver	TI 5	Voc	Cladosporium
10/6/2021	4	Registry of Deeds room 400 at room 405	AC2	Uninsulated	Supply	Louver	TL-5	Yes	Clad

Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General Impression				
10/18/2021	2	Room 230	AC3	Uninsulated	Return	Louver	TL-5	No					
10/18/2021	2	Room 224	AC3	Uninsulated	Return	Louver	TL-2	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Room 223	AC3	Uninsulated	Return	Louver	TL-4	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Room 228	AC3	Uninsulated	Return	Louver	TL-9	Yes	Cladosporium				
10/18/2021	2	Clerk of District Court front left side	AC3	Uninsulated	Return	Louver	TL-11	Yes	Aureobasidium, Cladosporium, low				
10/18/2021	2	Clerk of District Court room 216	AC3	Uninsulated	Return	Louver	TL-12	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Clerk of District Court room 211	AC3	Uninsulated	Return	Louver	TL-14	Yes	Cladosporium, low				
10/18/2021	2	Clerk of District Coourt room 221	AC3	Uninsulated	Return	Louver	TL-17	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Clerk of District Coourt room 219	AC3	Uninsulated	Return	Louver	TL-18	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Room 224	AC3	Insulated	Supply	Louver	TL-1	Yes	Cladosporium				
10/18/2021	2	Room 230	AC3	Insulated	Supply	Louver	TL-6	Yes	Cladosporium				
10/18/2021	2	Room 228	AC3	Insulated	Supply	Louver	TL-8	Yes	Aureobasidium, Cladosporium				
10/18/2021	2	Clerk of District Court Civil front left side at lobby	AC3	Insulated	Supply	Louver	TL-10	Yes	Cladosporium				
10/18/2021	2	Clerk of District Court room 211	AC3	Insulated	Supply	Louver	TL-15	Yes	Cladosporium				

_			Duct Ventilation		Supply or Return Ductwork	_	Sample	Mold Growth Reported by	Comments/General
Date	Floor	Access Location	Zone	Insulated?	Sampled	Access Type	ID	Laboratory?	Impression
									Aureobasidium,
10/18/2021	2	Room 223	AC3	Uninsulated	Supply	Louver	TL-3	Yes	Basidiospores, Cladosporium
10/10/2021		100111 223	703	Utilitsulateu	Зирріу	Louvei	IL-3	163	Aureobasidium,
10/18/2021	2	Elevator #5 Lobby	AC3	Uninsulated	Supply	Louver	TL-7	Yes	Cladosporium
10/10/2021		Clerk of District	7100	Omnodiated	Сирріу	Loavoi	127	100	онаворонат
10/18/2021	2	Court Civil 216	AC3	Uninsulated	Supply	Louver	TL-13	Yes	Cladosporium
		Clerk of District							,
10/18/2021	2	Court room 221	AC3	Uninsulated	Supply	Louver	TL-16	Yes	Cladosporium
		Clerk of District							
10/18/2021	2	Court room 219	AC3	Uninsulated	Supply	Louver	TL-19	Yes	Cladosporium
10/13/2021	3	Room 323	AC3	Uninsulated	Return	Louver	TL-3	No	
10/13/2021	3	Room 320B	AC3	Uninsulated	Return	Louver	TL-5	No	
10/13/2021	3	Room 376	AC3	Uninsulated	Return	Louver	TL-7	No	
10/13/2021	3	Room 378A	AC3	Uninsulated	Return	Louver	TL-9	No	
									Aureobasidium,
10/13/2021	3	Room 347	AC3	Insulated	Return	Louver	TL-2	Yes	Cladosporium
									Aureobasidium,
10/13/2021	3	Room 332	AC3	Uninsulated	Return	Louver	B-2	Yes	Cladosporium, low
40/40/0004							_ ,		Aureobasidium,
10/13/2021	3	Room 332	AC3	Insulated	Supply	Louver	B-1	Yes	Cladosporium, low
10/13/2021	3	Room 323 attorney booth	AC3	Uninsulated	Cupply	Louwer	TL-4	Yes	Cladaanarium
					Supply	Louver			Cladosporium
10/13/2021	3	Room 320B	AC3	Uninsulated	Supply	Louver	TL-6	Yes	Cladosporium
10/13/2021	3	Room 376	AC3	Uninsulated	Supply	Louver	TL-8	Yes	Cladosporium

Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General
10/19/2021	Garage	Room G42 at	A C 2	I Inima data d	Deture	Access namel	TI 2	No	
10/19/2021	Level	outside air intake	AC3	Uninsulated	Return	Access panel	TL-3	No	
10/19/2021	Garage Level	Room G42A	AC3	Uninsulated	Return	Access panel	TL-4	No	
10/19/2021	Garage Level	Room G42A at Paint shop	AC3	Uninsulated	Return	Access panel	TL-5	No	
10, 10,2021	Garage				1.1010	T tooose panie.		1.10	
10/19/2021	Level	Room G42A	AC3	Uninsulated	Return	Access panel	TL-2	Yes	Cladosporium
	Garage	Room G42A at				·			·
10/19/2021	Level	room G43	AC3	Uninsulated	Supply	Access panel	TL-1	Yes	Cladosporium
10/20/2021	Plaza	Room 142	AC3	Uninsulated	Return	Louver	TL-6	No	
10/20/2021	Plaza	Room 166	AC3	Uninsulated	Return	Louver	TL-7	No	
10/21/2021	Plaza	Room 131	AC3	Uninsulated	Return	Louver	TL-1	No	
10/21/2021	Plaza	Room 122	AC3	Uninsulated	Return	Louver	TL-2	No	
10/21/2021	Plaza	Room 124	AC3	Uninsulated	Return	Louver	TL-6	No	
10/21/2021	Plaza	Room 110B	AC3	Uninsulated	Return	Louver	TL-12	No	
10/21/2021	Plaza	Room 121B	AC3	Uninsulated	Return	Louver	TL-4	Yes	Cladosporium, low
									Aureobasidium,
10/21/2021	Plaza	Hall at room 140A	AC3	Uninsulated	Return	Louver	TL-8	Yes	Cladosporium
40/04/0004	Dia	Da 121	402	l laine de la fe d	Datum	Lauran	TI 40	Vaa	Aureobasidium,
10/21/2021	Plaza	Room 131	AC3	Uninsulated	Return	Louver	TL-10	Yes	Cladosporium, low Aureobasidium,
10/20/2021	Plaza	Room 142	AC3	Insulated	Supply	Louver	TL-5	Yes	Cladosporium
10/21/2021	Plaza	Room 131	AC3	Insulated	Supply	Louver	TL-9	Yes	Aureobasidium, Cladosporium

Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021 Appendix 1, Page 7 of 10

Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General
									Aureobasidium,
10/21/2021	Plaza	Room 110B	AC3	Insulated	Supply	Louver	TL-11	Yes	Cladosporium
10/20/2021	Plaza	Room 166	AC3	Uninsulated	Supply	Louver	TL-8	Yes	Cladosporium
10/21/2021	Plaza	Room 121	AC3	Uninsulated	Supply	Louver	TL-3	Yes	Cladosporium
10/21/2021	Plaza	Elevator #5 lobby	AC3	Uninsulated	Supply	Louver	TL-5	Yes	Cladosporium
		Room 124 attorney							Aureobasidium,
10/21/2021	Plaza	booth	AC3	Uninsulated	Supply	Louver	TL-7	Yes	Cladosporium
10/21/2021	Plaza	Room 108	AC3	Uninsulated	Supply	Louver	TL-13	Yes	Aureobasidium, Cladosporium

	October 12 – October 21, 2021												
Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General Impression				
10/12/2021	3	Hall at room 381	AC4	Uninsulated	Return	Acess panel	TL-6	No					
10/14/2021	3	Room 381	AC4	Uninsulated	Return	Louver	B-1	No					
10/14/2021	3	Clerk of Court Criminal Clerk of Superior	AC4	Uninsulated	Return	Louver	B-2	No					
10/14/2021	3	Court secretary pool	AC4	Uninsulated	Return	Louver	B-3	No					
10/14/2021	3	Clerk of Superior Court Civil room 300	AC4	Uninsulated	Return	Louver	B-4	No					
10/14/2021	3	Law Library	AC4	Uninsulated	Return	Louver	B-5	No					
10/14/2021	3	Room 350	AC4	Uninsulated	Return	Louver	TL-2	Yes	Cladosporium				
10/14/2021	3	Room 371	AC4	Uninsulated	Return	Louver	TL-4	Yes	Cladosporium, low				
10/14/2021	3	Room 370	AC4	Uninsulated	Return	Louver	TL-5	Yes	Cladosporium				
10/14/2021	3	Room 371	AC4	Insulated	Supply	Louver	TL-3	Yes	Cladosporium				
10/14/2021	3	Room 370	AC4	Insulated	Supply	Louver	TL-6	Yes	Cladosporium				
10/14/2021	3	Law Library	AC4	Insulated	Supply	Louver	TL-11	Yes	Cladosporium				
10/12/2021	3	Hall at Law Library	AC4	Uninsulated	Supply	Linear diffuser	TL-4	Yes	Aureobasidium, Cladosporium				
10/14/2021	3	Room 350	AC4	Uninsulated	Supply	Louver	TL-1	Yes	Cladosporium				
10/14/2021	3	Room 380	AC4	Uninsulated	Supply	Louver	TL-7	Yes	Cladosporium				
10/14/2021	3	Hall at room 343	AC4	Uninsulated	Supply	Louver	TL-8	Yes	Cladosporium				
10/14/2021	3	Clerk of Superior Court Criminal	AC4	Uninsulated	Supply	Louver	TL-9	Yes	Cladosporium				

	October 12 - October 21, 2021											
Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General			
		Clerk of Superior										
40/44/0004		Court Secretary										
10/14/2021	3	Pool	AC4	Uninsulated	Supply	Louver	TL-10	Yes	Cladosporium			
40/00/0004	Garage	Da 040 -1 404	101	Hada a data d	Datam	A I	TI 0	NI.				
10/20/2021	Level	Room G42 at AC4	AC4	Uninsulated	Return	Acess panel	TL-3	No				
10/20/2021	Garage Level	Room G42	AC4	Uninsulated	Return	Acess panel	TL-4	No				
	Garage		-					-	Aureobasidium,			
10/20/2021	Level	Room G42 at AC4	AC4	Uninsulated	Supply	Acess panel	TL-1	Yes	Cladosporium, low			
	Garage	Room G42 hall at							Aureobasidium,			
10/20/2021	Level	doors to garage	AC4	Uninsulated	Supply	Acess panel	TL-2	Yes	Cladosporium			
10/19/2021	Plaza	Room 138B	AC4	Uninsulated	Return	Louver	TL-6	No				
10/19/2021	Plaza	Room 167A	AC4	Uninsulated	Return	Louver	TL-9	No				
10/19/2021	Plaza	Room 167	AC4	Uninsulated	Return	Louver	TL-10	No				
10/20/2021	Plaza	Room 114A	AC4	Uninsulated	Return	Louver	TL-9	No				
10/20/2021	Plaza	Room 138A	AC4	Uninsulated	Return	Louver	TL-12	No	Medium deposition of Cladosporium but no growth			
10/19/2021	Plaza	Room 147	AC4	Uninsulated	Return	Louver	TL-12	Yes	Aureobasidium, Cladosporium, low			
10/21/2021	Plaza	Room 110B at room 108	AC4	Uninsulated	Return	Louver	TL-15	Yes	Aureobasidium, Cladosporium, low			
10/19/2021	Plaza	Room 138	AC4	Uninsulated	Supply	Louver	TL-7	Yes	Cladosporium			
10/19/2021	Plaza	Room 167A	AC4	Uninsulated	Supply	Louver	TL-8	Yes	Aureobasidium, Cladosporium			
10/19/2021	Plaza	Room 167	AC4	Uninsulated	Supply	Louver	TL-11	Yes	Cladosporium			

Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021 Appendix 1, Page 10 of 10

	0	12 0010001 21, 2	· - ·						
Date	Floor	Access Location	Duct Ventilation Zone	Insulated?	Supply or Return Ductwork Sampled	Access Type	Sample ID	Mold Growth Reported by Laboratory?	Comments/General Impression
10/19/2021	Plaza	Room 147	AC4	Uninsulated	Supply	Louver	TL-13	Yes	Cladosporium
10/20/2021	Plaza	Room 119	AC4	Uninsulated	Supply	Louver	TL-10	Yes	Aureobasidium, Cladosporium
10/20/2021	Plaza	Room 114	AC4	Uninsulated	Supply	Louver	TL-11	Yes	Cladosporium
10/21/2021	Plaza	Room 110B at room 107	AC4	Uninsulated	Supply	Louver	TL-14	Yes	Aureobasidium, Cladosporium
10/21/2021	Plaza	Room 103	AC4	Uninsulated	Supply	Louver	TL-16	Yes	Aureobasidium, Cladosporium
10/21/2021	Plaza	Hall at room 102	AC4	Uninsulated	Supply	Louver	TL-17	Yes	Aureobasidium, Cladosporium

Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021

Appendix 2 Analytical Laboratory Reports





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: 132107478 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/04/2021 **Received Date: 10/06/2021**

Analyzed Date: 10/07/2021

Project: 458085

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

Lab Sample Number: Client Sample ID: Sample Location:	132107478-0008 B-1 4th Floor, Courtroom 1, Duct at Lateral Return Louver	132107478-0009 B-2 4th Floor, Room 427, Metal Return Duct			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	Rare	Rare			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	Rare	Rare			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	Rare	Rare			
Pithomyces++	-	-			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Aureobasidium++	Rare	-			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	-	-			
Fibrous Particulate	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

Initial report from: 10/07/2021 09:24 AM

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.



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: 132107478 Customer ID: COVI50 Customer PO: 458085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/04/2021

 Woburn, MA 01801
 Received Date: 10/06/2021

 Analyzed Date: 10/07/2021

Project: 458085

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

Total Tape Samples (EMSE Metrod Micko-SOF-200)								
Lab Sample Number:	132107478-0001	132107478-0002	132107478-0003	132107478-0004	132107478-0005			
Client Sample ID:	TL-1	TL-2	TL-3	TL-4	TL-5			
Sample Location:	4th Floor, Room 426, Metal Supply Duct	4th Floor, Room 427, Metal Supply Duct	4th Floor, Hall at Elevator H2, Insulated Supply Duct	4th Floor, Probate Outside Room 444, Insulated Supply Duct	4th Floor, Registry of Probate, Insulated Supply Duct			
	Duct	Duct						
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	Rare	-			
Ascospores	Rare	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	Rare	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	Rare	Rare	*Low*	Rare	Rare			
Curvularia	-	-	-	-	-			
Epicoccum	Rare	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	-	Low	-	-	Low			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Aureobasidium++	-	-	*High*	Rare	Rare			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	Medium	Medium	-	High	Medium			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

Initial report from: 10/07/2021 09:24 AM

⁻ 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.



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: 132107478 Customer ID: COVI50 Customer PO: 458085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/04/2021

 Woburn, MA 01801
 Received Date: 10/06/2021

 Analyzed Date: 10/07/2021

Project: 458085

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

	nom rapo c	Jampioo (Emoz mo	IIIOU WIICKO-30F-20		
Lab Sample Number: Client Sample ID: Sample Location:	132107478-0006 TL-6 4th Floor, Registry of Probate, Metal Supply Duct	132107478-0007 TL-7 4th Floor, Registry of Probate, Metal Return Duct			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	Rare	Rare			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	Rare	Rare			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	Rare	-			
Pithomyces++	-	Rare			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Aureobasidium++	-	-			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	-	-			
Fibrous Particulate	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

Initial report from: 10/07/2021 09:24 AM

⁻ 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.

OrderID: 132107478



Microbiology Chain of Custody Form

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107478

PHONE: (800) 220-3675

EMAIL: CinnMicroLab@emsl.com If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization, Customer ID: Company Name: Company Name Information Information Contact Name: Am Eckman/Mile McCarter Billing Contact Street Address: 300 W. Duo D Ave Street Address City, State, Zip Country Phone Phone 6.3 396 2000 Email(s) for Report: MUCLUTER O TRE Email(s) for Invoice ARCHMAN O TAL Companies Com Companies (Con gechnam @ The Coperios, Con Project Information Project Order 45-8085 Name/No State Zip Code State of Connecticut (CT) must select project location: EMSL LIMS Project ID Samples Samples (If applicable, EMSL will Commercial (Taxable) Residential (Non-taxable) ovide) Collected Collected Sampled By Name No. of Samples Sampled By Signature in Shipment .clee (MCCarte Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify) Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by State. Turn-Around-Time (TAT) 3 Hou 24 Hour 32* Hour 48 Hour 72 Hour 96 Hour 1 Week 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*) M730 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* M006 Viable Fungi-Air Samples (Includes Penicillum, Aspergillus, M020 Fecal Streptococcus (MFT*) M014 Endotoxin Analysis Cladosporium, Stachybotrys Species ID & Count) M029 Enterococci (MFT*) M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) M129 Enterococci (Enterolert P/A***) M095 Racteroides M007 Culturable Fungi-Surface Samples (Genus ID & Count) M008 Culturable Fungi-Surface Samples (Includes Penicillum) M180 Real Time qPCR-ERMI 36 Panel Other - See Analytical Price Guide for Test Code Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M025 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionella COC *MFT= Membrane Filtration Technique M009 Bacteria Culture Gram Stain & Count **MPN = Most Probable Number M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent ***P/A = Presence/Absence Potable / Non-Sample Type Temperature Sample # Sample Location/Description Potable (Only for **Test Code** Volume/Area Date / Time Collected (Matrix) (Lab Use Only) Water) Example: Sample 1 Water Potable M017 1,000 ml 1/1/2021 3:30pm REC'D FIRS OF THE BY EMSL-BOSTON OCT 06 2021 Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Method of Shipment Sample Condition Upon Receipt Relinquished by: Received by Date/Time Relinquished by Received by Date/Time Controlled Document - COC-34 Micro R13 03/02/202

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.

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

OrderID: 132107478



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EM\$L Order Number / Lab Use Only

132107478

PHONE: (800) 220-3675

EMAIL: CinnMicroLab@emsl.com

Additional Pages of the Chain of C	Special Instructions and/or Reg		s (Sample Specification	s, Processing Met	hods, Limits of Deter	ction, etc.)	
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)		Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
TL-I	meral supply Duit			mo41	NA	10/4/21	
TL-1 TL-2	Simply dut un floor Hall D Blente						
TL-3	47. floor Hall D Bleveto						
TL-4	LMYYY. Insulated Supply	acr					
TL-9 TL-6 TL-7	HT floor Hall & Merele HZ. included Sipply Duck An floor Probate osis. le famyyy. Insulated Sipply in floor Registry at Proba insulated Sipply Duck Un floor Registry of Probat Metal Sipply Duck Metal Sipply Duck Metal Sipply Duck Metal Registry of Probat Metal Registry of Probat Metal Registry of Probat Metal Registry of Probat Metal Registry of Probat	14					
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				EMSL-	BOSTON		
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Relinquished by:		Date/Time:	Receiv	ed by:		Date/Time	

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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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: 132107480 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/05/21 **Received Date: 10/06/2021**

Analyzed Date: 10/07/2021

Project: 458085 - Springfield

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

Lab Camaria Namahan	132107480-0001	132107480-0002	132107480-0003	132107480-0004	132107480-0005
Lab Sample Number:	TL-1	TL-2	TL-3	TL-4	TL-5
Client Sample ID: Sample Location:	4th Floor, Room 426, Metal Return Duct	4thFloor, Hall at Stair 1, Metal Return Duct	4th Floor, Hall at Courtroom 2, Insulated Supply Duct	4th Floor, Hall at Men's 4278, Insulated Supply Duct 427B	4th Floor, Hall at Room 419, Insulated Supply Duct
Spore Types	Category	Category	Category	Category	Category
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	Rare	-	-	Rare
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	Medium	Rare	Low	*High*	Rare
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium++	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	Rare	Rare	Rare	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Aureobasidium++	-	-	-	*Low*	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	Low	-	Rare
Fibrous Particulate	-	-	-	-	-

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

Initial report from: 10/07/2021 09:23 AM

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.

OrderID: 132107480



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107480

PHONE: (800) 220-3675

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Customer Information	Contact Name:	11				Billing	Contact:						
form	Ann	Echance		(Care		E	Address:						
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	L LIMS Project ID: licable, EMSL will			State Samples	Zip Coo Sample				necticut (CT) mus				
provid	e)			Collected:	Collecte			Comn	nercial (Taxable)		dential (Non-taxable		
Sam	pled By Name:			Sampled By Sign	nature:	0				No. of Sa in Shipm			
	Michael M			While	Spice	ut							
_	Sterile		sulfate Preserved Bottle		le Used in Sour		*						
-			Public Water Supply San Turn-Around-Ti					to DOH if require		r samples must	he submitted by 11:30am		
	3 Hour	6 Hour	24 Hour	32* Hour	48 Hour		72 Hour	96 Hou		Week	2 Week		
-					ROBIOLOGY T	EST CODE				TT-CEN			
MOO	1 Air-O-Cell	M174 MoldSi	nap					M115 Sewag	e Screen - Water	(P/A***)			
	0 Micro 5	M032 Allerge		M012 Pseudomonas aeruginosa (P/A***) M024 Pseudomonas aeruginosa (MFT*)				M115 Sewage Screen - Water (P/A***) M116 Sewage Screen - Water (MPN**)					
M04	1 Fungal Direct Exam	ination		M015 Heterotrop	hic Plate Count			M117 Sewage Screen - Swab (P/A***) M013 Sewage Screen - Swab (MFT*)					
M16	9 Pollen ID & Enumer	ation		M017 Total Colifo	orm & E. Coli (C	olilert P/A*	**)						
M28	O Dust Characterization	on Level-1		M018 Total Colifo	orm & E. Coli (M	FT*)		M730 Methicillin-resistant Staph, aureus (MRSA)					
M28	1 Dust Characterization	on Level-2		M114 Total Colifo	orm & E. Coli En	(Colilert MPN**)	M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration						
25.1	Viable Fungi-Air San			M019 Fecal Colife		**			of Acceptance				
	osporium, Stachybotr		Penicillum, Aspergillus, & Count)	M020 Fecal Strep M029 Enterococc		-)		M014 Endoto		a Caaksaas	th Durat Mita)		
MOO	7 Culturable Fungi-Su	rface Samples (Genus ID & Count)	M129 Enterococc		(***)		M095 Bacter	Allergen (Cat, Do	g, Cockroad	n, Dust Mite)		
1000	8 Culturable Fungi-Su			M180 Real Time					Analytical Price G	uide for Tes	t Code		
	ergillus, Cladosporium			M025 Sewage So					nalysis Please u				
MOO	9 Bacteria Culture Gra	am Stain & Cour	nt	*MFT= Membrane	e Filtration Techn	nique							
M01	0 Bacteria Count & ID	- 3 Most Promir	nent	**MPN = Most Pr	robable Number								
M01	1 Bacteria Count & ID	- 5 Most Promir	nent	***P/A = Presenc	ce/Absence		71						
	Sample #	Sample	Location/Description	Sample Type (Matrix)	Potable / Potable (6 Water	Only for	Test Code	Volume/Area	Date / Time C	Collected	Temperature (Lab Use Only)		
E	cample: Sample 1		Kitchen	Water	Potal	ble	M017	1,000 ml	1/1/2021 3	30pm			
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Relin	quished by:	2		Date/Time:	- (Receive	ed by:		Date	e/Time			
113		D42 22-2				1			Date				
Contro	iled Document - COC-34 Mi	cro R13 03/02/2021		AGREE TO ELECT	TRONIC SIGNATU	JRE (By che	cking, I consent to	signing this Chain of	Custody document	by electronic	signature.)		

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OrderID: 132107480



Microbiology Chain of Custody Form

EMSL Analytical. Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107480

Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperatur (Lab Use On
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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: 132107765 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/06/2021 **Received Date: 10/15/2021**

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Lab Sample Number: Client Sample ID: Sample Location:	132107765-0001 TL-1 4th Floor Hall at Stair 2, Insulated Return Duct	132107765-0002 TL-2 4th Floor Hall at Stair 2, Uninsulated Return Duct	132107765-0003 TL-3 4th Floor Hall at Women's 453, insulated Supply Duct	132107765-0004 TL-4 4th Floor Registry of Deeds Room 407, Uninsulated Supply Duct	132107765-0005 TL-5 4th Floor Registry of Deeds Room 400 at Room 405, Uninsulated Supply Duct
Spore Types	Category	Category	Category	Category	Category
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	Low	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	Low	*Medium*	*High*	*Medium*	*Medium*
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium++	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	Low	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Aureobasidium++	-	-	*Medium*	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	Low	-	Medium	-	Low
Fibrous Particulate		-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

Initial report from: 10/18/2021 09:56 AM

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.



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: 132107765 Customer ID: COVI50 Customer PO: 458085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/06/2021

 Woburn, MA 01801
 Received Date: 10/15/2021

 Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

nom rape samples (LWSL Wethou Wicko-307-200)										
Lab Sample Number: Client Sample ID: Sample Location:	132107765-0006 TL-6 4th Floor Registry of Deeds Room 403, Insulated Supply Duct	132107765-0007 TL-7 4th Floor Registry of Deeds Room 300 at 408B, Uninsulated Return Duct	132107765-0008 TL-8 4th Floor Registry of Deeds Room 450, Uninsulated Return Duct	132107765-0009 TL-9 4th Floor Registry of Deeds Hall at Room 415, Uninsulated Return Duct						
	0-4	0-4	0-1	0-4						
Spore Types	Category	Category	Category	Category	-					
Alternaria (Ulocladium)	-	-	-	-						
Ascospores	-	-	-	-						
Aspergillus/Penicillium	-	-	-	-						
Basidiospores	-	-	-	-						
Bipolaris++	-	-	-	-						
Chaetomium++	-	-	-	-						
Cladosporium	Low	Low	Low	Low						
Curvularia	-	-	-	-						
Epicoccum	-	-	-	-						
Fusarium++	-	-	-	-						
Ganoderma	-	-	-	-						
Myxomycetes++	-	Low	Low	Low						
Pithomyces++	-	-	-	-						
Rust	-	-	-	-						
Scopulariopsis/Microascus	-	-	-	-						
Stachybotrys/Memnoniella	-	-	-	-						
Unidentifiable Spores	-	-	-	-						
Zygomycetes	-	-	-	-						
Aureobasidium++	-	-	-	-						
Hyphal Fragment	-	-	-	-						
Insect Fragment	-	-	-	-						
Pollen	Medium	-	-	Low						
Fibrous Particulate	-	-	-	-						

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

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

Initial report from: 10/18/2021 09:56 AM

⁻ 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.

OrderID: 132107765



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

200 Route 130 North Cinnaminson, NJ 08077

EMSL Analytical, Inc.

132107765

PHONE: (800) 220-3675

						If Bill-	To is the same as Repo	ort-To leave this section	►MAIL; CINNM In blank, Third-party billing requires wr	itten authorization.
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****				OBIOLOGY			S			
	Air-O-Cell	M174 MoldSnap	M012 Pseudomona						ge Screen - Water (P/A***)	
	Micro 5	M032 Allergenco-D	M024 Pseudomona	1000	- 5	F (*)			ge Screen - Water (MPN**)	
	Fungal Direct Exam		M015 Heterotrophic			. 5.11.11		Lastron State Control	ge Screen - Swab (P/A***)	
	Pollen ID & Enume		M017 Total Coliforn				*)		ge Screen - Swab (MFT*)	
	Dust Characterizati		M018 Total Coliforn						cillin-resistant Staph, aureus	
	Dust Characterization		M114 Total Coliforn		nun	neration ((Colilert MPN**)	M031 Rapid Enumeration	-growing non-TB Mycobacter	a Detection &
M005	Viable Fungi-Air Sa	mples (Genus ID & Count)	M019 Fecal Colifor	m (MFT*)				Liturieration		
		mples (Includes Penicillum, Aspergillus,	M020 Fecal Strepts	ococcus (MF	T*)			M014 Endot	oxin Analysis	
Clado	osponum, Stacnybot	rys Species ID & Count)	M029 Enterococci	(MFT*)				M044 Group	Allergen (Cat, Dog, Cockroa	ch, Dust Mite)
M007	7 Culturable Fungi-St	urface Samples (Genus ID & Count)	M129 Enterococci	(Enterolert P	/A**	*)		M095 Bacte	roides	
		urface Samples (Includes Penicillum,	M180 Real Time q	PCR-ERMI 3	6 Pa	inel		Other - See	Analytical Price Guide for Tes	st Code
Aspe	rginus, Ciadosponun	n, Stachybotrys Species ID & Count)	M025 Sewage Scre	een - Water (MFT	T*)		Legionella	Analysis Please use EMSL L	egionella COC
M009	Bacteria Culture Gr	am Stain & Count	*MFT= Membrane	Filtration Tec	hniq	lue				
M010	Bacteria Count & ID	- 3 Most Prominent	**MPN = Most Prof	bable Numbe	r					
M011	Bacteria Count & ID	- 5 Most Prominent	***P/A = Presence/	/Absence						
	Sample #	Sample Location/Description	Sample Type (Matrix)	Potable Potable Wa			Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
Ex	ample: Sample 1	Kitchen	Water	Pol	table	e	M017	1,000 ml	1/1/2021 3:30pm	
		1								
		See ATTECHE								
									in	
		Special Instructions and/or	Regulatory Requirement	ts (Sample S	peci	fications,	Processing Method	ods, Limits of De	ection etc.)	
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							4	311	OCT 15 2021	
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Controll	led Document - COC-34 N	licro R13 03/02/2021	AGREE TO ELECTR	RONIC SIGNA	TUR	E (By che	cking, I consent	gning this Chain o	f Custody document by electron	ic signature.)
									,,	

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Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number / Lab Use Only

132107765

PHONE (800) 220-3675

EMAIL CinnMicroLab@emsl.com

ditional Pages of the Chain of Cu	ustody are only necessary if needed for additional sampl Special Instructions and/or Reg		(Sample Specifications	, Processing Meth	nods, Limits of Deter	ction, etc.)	
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
+1 -1	un from Hell O steer 2			moul		10/6/21	
tl-1 tl-2	Milate & Spyly Duct 4th floor Hall to stair 2 missisted hetern Duct			1 00-11		10/6/01	
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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: 132107764 COVI50 Customer ID: Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/07/2021 **Received Date: 10/15/2021**

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Tom rape campion (Emer metre cer 200)					
Lab Sample Number: Client Sample ID: Sample Location:	132107764-0001 TL-1 4th Floor Registry of Deeds Room 411, Uninsulated Duct, Return	132107764-0002 TL-2 4th Floor Room 446 at Stair 1, Insulated Return Duct	132107764-0003 TL-3 4th Floor Room 446 at Men's Room, Uninsulated Return	132107764-0004 TL-4 4th Floor Room 446 at Center of Room, Insulated Supply Duct	132107764-0005 TL-5 4th Floor Room 446 at Room 446D, Uninsulated Return Duct
Spore Types	Category	Category	Category	Category	Category
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	Rare	Rare	Rare	-	Rare
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	Low	Rare	Low	*High*	Low
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium++	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	Rare	-	Rare	-	Rare
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	Medium	Low	-	-
Fibrous Particulate	-	-	-	-	-

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

Initial report from: 10/18/2021 09:53 AM

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.



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: 132107764 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/07/2021 Received Date: 10/15/2021

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

	400404000			•	
Lab Sample Number:	132107764-0006	132107764-0007			
Client Sample ID:	TL-6	TL-7			
Sample Location:	4th Floor Room 446 North Corner, Insulated Supply Duct	4th Floor Room 446-Room 446D, Uninsulated Return			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	-	Low			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Pithomyces++	-	-			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	Medium	Low			
Fibrous Particulate	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.

OrderID: 132107764



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107764

PHONE: (800) 220-3675

TESTING LABS • PRODUCTS •								croLab@emsl.cor	
Customer ID:				Billing II		ort-To leave this section t	plank, Third-party billing requires writ	ten authorization.	
□ Company Name:	701			Compar	y Name:				
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Phone:	10810 An Nulcu			City, State, Zip:					
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EMSL LIMS Project ID:	3	State .	Zip Code			State of Conn	ecticut (CT) must select proj	ect location:	
If applicable, EMSL will provide)		Samples Collected:	Sample: Collected			Comm	ercial (Taxable) Resid	dential (Non-taxal	
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Michael	MICSTE	milpro	1						
Ster	rile, Sodium Thiosulfate Preserved Bottle		Used in Source						
	Public Water Supply Sa					to DOH if require	d by State. able for select tests only, samples must	he submitted by 11-20	
3 Hour	Turn-Around-T	32* Hour	48 Hour	and/or turns	72 Hour	96 Hour	1 Week	2 Week	
3 Hour	O Hour X 24 Hour			STCODE		se nour	vveek		
M001 Air-O-Cell	M174 MoldSnap		OBIOLOGY TE		3	M115 Sawaa	Screen - Water (P/A***)		
M030 Micro 5	M032 Allergenco-D	M012 Pseudomorias aeruginosa (P/A***) M024 Pseudomorias aeruginosa (MFT*)							
M041 Fungal Direct Exa		M015 Heterotrophic Plate Count				M116 Sewage Screen - Water (MPN**) M117 Sewage Screen - Swab (P/A***)			
M169 Pollen ID & Enum		M017 Total Coliforn		lilert P/A**	7		Screen - Swab (MFT*)		
M280 Dust Characteriza		M018 Total Coliforn						MRSA)	
M281 Dust Characteriza		M114 Total Coliforn			Colilert MPN**)		rowing non-TB Mycobacteria		
	Samples (Genus ID & Count)	M019 Fecal Coliforn	Enumeration						
M006 Viable Fungi-Air S	006 Viable Fungi-Air Samples (Includes Penicillum, Aspergillus,)		M014 Endoto		ah Durat Mila)	
	Surface Samples (Genus ID & Count)	M029 Enterococci		***\		M095 Bactero	Allergen (Cat, Dog, Cockroad	ari, Dust Wilte)	
	Surface Samples (Genus ID & Count) Surface Samples (Includes Penicillum,	M180 Real Time qF	Cartest - Cartes				nalytical Price Guide for Tes	t Code	
	ium, Stachybotrys Species ID & Count)	M025 Sewage Scre				10000000000000000000000000000000000000	nalysis Please use EMSL Le		
M009 Bacteria Culture	Gram Stain & Count	*MFT= Membrane F				Legionena A	Mary 313 1 loade ade Linet Li	egioriena ded	
	Grain Stain & Count	**MPN = Most Prob		77					
MOTO Dacteria Count &	ID - 3 Most Prominent								
	ID - 3 Most Prominent ID - 5 Most Prominent	***P/A = Presence/	Absence						
			Potable / Potable (C Wate	only for	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only	
M011 Bacteria Count &	ID - 5 Most Prominent Sample Location/Description	***P/A = Presence/s	Potable / Potable (C	only for r)	Test Code	Volume/Area	Date / Time Collected		
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	***P/A = Presence// Sample Type (Matrix)	Potable / Potable (C Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	***P/A = Presence// Sample Type (Matrix)	Potable / Potable (C Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	***P/A = Presence// Sample Type (Matrix)	Potable / Potable (C Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	***P/A = Presence// Sample Type (Matrix)	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate	only for r)					
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description	Sample Type (Matrix) Water	Potable / Potable (O Wate Potab	only for r)	M017	1,000 ml	1/1/2021 3:30pm		
M011 Bacteria Count & Sample #	ID - 5 Most Prominent Sample Location/Description Kitchen	Sample Type (Matrix) Water	Potable / Potable (O Wate Potab	only for r)	M017	1,000 ml	1/1/2021 3:30pm		
M011 Bacteria Count & Sample # Example: Sample	ID - 5 Most Prominent Sample Location/Description Kitchen	Sample Type (Matrix) Water	Potable / Potable (O Wate Potab	only for r)	M017 Processing Meth	1,000 ml	1/1/2021 3:30pm		
M011 Bacteria Count & Sample # Example: Sample Method of Shipment:	Sample Location/Description Kitchen Special Instructions and/or F	Sample Type (Matrix) Water	Potable / Potable (O Wate Potab	only for r)	Processing Meth	ods, Limits of Dete	1/1/2021 3:30pm		
M011 Bacteria Count & Sample # Example: Sample Method of Shipment:	ID - 5 Most Prominent Sample Location/Description Kitchen	Sample Type (Matrix) Water	Potable / Potable (O Wate Potab	only for r)	Processing Meth	ods, Limits of Dete	1/1/2021 3:30pm		
M011 Bacteria Count & Sample # Example: Sample Method of Shipment:	Sample Location/Description Kitchen Special Instructions and/or F	Sample Type (Matrix) Water Regulatory Requirement	Potable / Potable (O Wate Potab	only for r) like	Processing Meth	1,000 ml	1/1/2021 3:30pm		

OrderID: 132107764



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107764

PHONE (800) 220-3675 EMAIL CinnMicroLab@emsl.com

	Special Instructions and/or Reg	ulatory Requirement	ts (Sample Specifications	s. Processing Met	hods. Limits of Dete	ction, etc.)	
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
TL-1	47 for legistry of Deed P Run 411 - warshated Du (47) floor-floor 446 Osta Insulated Petern Duch	F RETURN		Moyl		wlzlzi	
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1-3	With floor - Room 446 0 me	us Dan					
-64	insulated SIMLY DUCT CON	TO of form					
TL-6 TL-0	Insulate Petern Doint 4th front - Room 446 0 Me unisolated Seturn 4th floor - Room 446 0 Roo insulated Sipply Duct dit floor Room 446 0 Roo unisolated Deturn Doint 4th floor - Room 441 Noor 1-501-Ted Sipply Duct 4th floor - Room 441 Pour unisolated Peturn Du unisolated Peturn Du unisolated Peturn Du	D 50000					
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ontrolled Document - COC-34				EMSL			

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) 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.

of



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: 132107762 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/12/2021 **Received Date: 10/15/2021**

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

non rape damples (Lind Method Micro-301-200)							
Lab Sample Number:	132107762-0001	132107762-0002	132107762-0003	132107762-0004	132107762-0005		
Client Sample ID:	TL-1	TL-2	TL-3	TL-4	TL-5		
Sample Location:	3rd Floor Women's Room 389, Uninsulated Supply Duct	3rd Floor Men's Room 390, Uninsulated Supply Duct	3rd Floor Hall at Stair 2, Uninsulated Return Duct	3rd Floor Hall at Law Library, Return at Linear Diffuser, Uninsulated	3rd Floor Hall at Stair 3, Uninsulated Supply Duct		
				·			
Spore Types	Category	Category	Category	Category	Category		
Alternaria (Ulocladium)	-	-	-	-	-		
Ascospores	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	Low	-		
Basidiospores	-	Rare	-	-	-		
Bipolaris++	-	-	-	-	-		
Chaetomium++	-	-	-	-	-		
Cladosporium	-	Rare	Low	*Medium*	Rare		
Curvularia	-	-	-	-	-		
Epicoccum	-	-	-	-	-		
Fusarium++	-	-	-	-	-		
Ganoderma	-	-	-	-	-		
Myxomycetes++	-	-	-	-	Rare		
Pithomyces++	-	-	-	-	-		
Rust	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-		
Zygomycetes	-	-	-	-	-		
Aureobasidium++	-	Low	-	*Medium*	Rare		
Hyphal Fragment	-	-	-	-	-		
Insect Fragment	-	-	-	-	-		
Pollen	-	-	-	-	-		
Fibrous Particulate	-	-	-	-	-		

Sample Comment: 132107762-0001 - None Detected

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.

Steve Grise, 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. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications

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



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: 132107762 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/12/2021 **Received Date: 10/15/2021**

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

	· · · · · · · · · · · · · · · · · · ·	Damples (LINOL Me			
Lab Sample Number: Client Sample ID: Sample Location:	132107762-0006 TL-6 3rd Floor Hall at Room 381, Uninsulated Return Duct	132107762-0007 TL-7 3rd Floor Hall at Stair 1, Uninstulated Return Duct			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	Low	*High*			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Pithomyces++	-	-			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Aureobasidium++	-	*Medium*			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	-	-			
Fibrous Particulate	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.

OrderID: 132107762



Controlled Document - COC-34 Micro R13 03/02/2021

Microbiology Chain of Custody Form

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107762

PHONE: (800) 220-3675 EMSL ANALYTICAL, INC. EMAIL: CinnMicroLab@emsl.com If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization. Customer ID: Billing ID: Company Name: TRC Company Name: Information Information Contact Name Billing Contact: AM Echnan / Michael MCCONTC 300 w. Dwood Ave Street Address: Customer City, State, Zip: Country City, State, Zip Country Phone 603-396-2600 Email(s) for Invoice **Project Information** Name/No: State of Connecticut (CT) must select project location: EMSL LIMS Project ID Zip Code Samples Samples (If applicable, EMSL will Commercial (Taxable) Residential (Non-taxable) rovide) Collected Sampled By Name: No. of Samples Sampled By Ston in Shipmen Mah Michael Marto Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify) Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by State. Turn-Around-Time (TAT) Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select te 24 Hour 32* Hour 96 Hour 1 Week 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**) M117 Sewage Screen - Swab (P/A***) M041 Fungal Direct Examination M015 Heterotrophic Plate Count 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*) M730 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 & M005 Viable Fundi-Air Samples (Genus ID & Count) M019 Fecal Coliform (MFT*) M006 Viable Fungi-Air Samples (Includes Penicillum, Aspergillus, M020 Fecal Streptococcus (MFT*) M014 Endotoxin Analysis Cladosporium, Stachybotrys Species ID & Count) M029 Enterococci (MFT*) M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) M007 Culturable Fungi-Surface Samples (Genus ID & Count) M129 Enterococci (Enterolert P/A***) M095 Bacteroides M008 Culturable Fungi-Surface Samples (Includes Penicillum, M180 Real Time qPCR-ERMI 36 Panel Other - See Analytical Price Guide for Test Code Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M025 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionella COC *MFT= Membrane Filtration Technique M009 Bacteria Culture Gram Stain & Count *MPN = Most Probable Number M010 Bacteria Count & ID - 3 Most Prominent ***P/A = Presence/Absence M011 Bacteria Count & ID - 5 Most Prominent Potable / Non-Sample Type Temperature Test Code Potable (Only for Volume/Area Date / Time Collected Sample # Sample Location/Description (Matrix) (Lab Use Only) Water) M017 1,000 ml Example: Sample 1 Potable 1/1/2021 3:30pm See ATTOCKES Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection Method of Shipment Sample Condition Upon Receip Relinquished by Date/Time: Received by: 10-1 Relinquished by: Received by:

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.

bdy document by electronic signature.)

in of

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Ch



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132 107762

P = 0 = (800) 220-3675 EV = CinnMicroLab@emsl.com

		1					
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperatur (Lab Use Onl
	300 flows women's Rm 38	7				17. ehl	
1-1	unsulate 9 capply Duct 300 Floor men's 12m 390 unsulated supply Duct 300 floor Hallostair Hz	-	_	MOYI	_	10/21/21 5PM	
1-7	300 floor mens 12m 390	,		,		1	
	300 floor Hall BStar HZ			1			
L-3	UMINSULATED RETURN DUCT						
	Beyond Linear Detroser 3rd floor than 2 ftser 3rd floor it all & Low Lil Reported Linear Detroser 3rd floor it all & Stair 3	orary o					
2.9	RETURNO Linear Diffuser	uninfulate)					
1.5	3rd Floor Hall & Stores						
- ,	30 floor Hall D Room 381						
1-2 1-3 1-4 1-5	Uninsulated Return DUCT						
L-7	uninsulated Return DUCT						4
L-7	unisulaTED PETUN DUCT			4		of Ferran	
						100	
						-	
				~	100		
hod of Shipment	ron O LAS		Sample	Condition Upon	Regeipt:		
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EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

AGREE TO ELECTRONIC SIGNATURE (By checking I consent to signing this Chain of Custody document by electronic signature.)



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: 132107767 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/13/2021 Received Date: 10/15/2021

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Lab Sample Number: Client Sample ID: Sample Location:	132107767-0010 B-1 3rd Floor Room 332, Insulation, Supply Duct	132107767-0011 B-2 3rd Floor Room 332, Uninsulated Return Duct			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	*Low*	*Low*			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Pithomyces++	-	-			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Aureobasidium++	*Low*	*Low*			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	-	-			
Fibrous Particulate	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

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.



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: 132107767 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/13/2021 Received Date: 10/15/2021

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Hom rape damples (Lind Method Micro-301-200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107767-0001 TL-1 3rd Floor Hall at Room 320, Uninsulated Return Duct	132107767-0002 TL-2 3rd Floor Room 347, Insulated Return Duct	132107767-0003 TL-3 3rd Floor Room 323, Uninsulated Return Duct	132107767-0004 TL-4 3rd Floor Room 323, Attorney Booth, Uninsulated Supply Duct	132107767-0005 TL-5 3rd Floor Room 320B, Uninsulated Return Duct			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	-	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	*High*	*High*	Rare	*High*	Low			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	-	-	Low	Low	Low			
Pithomyces++	-	-	Rare	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Aureobasidium++	-	*Low*	-	-	-			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	Rare	-	-			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.



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: 132107767 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/13/2021 Received Date: 10/15/2021

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Lab Sample Number: Client Sample ID: Sample Location:	132107767-0006 TL-6 3rd Floor Room 320B, Uninsulated Supply Duct	132107767-0007 TL-7 3rd Floor Room 376, Uninsulated Return Duct	132107767-0008 TL-8 3rd Floor Room 376, Uninsulated Supply Duct	132107767-0009 TL-9 3rd Floor Room 378A, Uninsulated Return Duct	
Spore Types	Category	Category	Category	Category	-
Alternaria (Ulocladium)	-	-	-	-	
Ascospores	-	-	-	-	
Aspergillus/Penicillium	-	-	-	-	
Basidiospores	-	-	-	-	
Bipolaris++	-	-	-	-	
Chaetomium++	-	-	-	-	
Cladosporium	*High*	Low	*High*	Rare	
Curvularia	-	-	-	-	
Epicoccum	-	-	-	-	
Fusarium++	-	-	-	-	
Ganoderma	-	-	-	-	
Myxomycetes++	-	Low	-	Rare	
Pithomyces++	-	-	-	-	
Rust	-	-	-	-	
Scopulariopsis/Microascus	-	-	-	-	
Stachybotrys/Memnoniella	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
Aureobasidium++	-	-	-	-	
Hyphal Fragment	-	-	-	-	
Insect Fragment	-	-	-	-	
Pollen	-	-	-	-	
Fibrous Particulate	-	-	-	-	

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

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.

OrderID: 132107767



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107767

PHONE: (800) 220-3675

Page 1 of

TESTING LABS · PRODUCTS · TR	AINING							croLab@emsl.com	
Customer ID:				Billing II		ort-To leave this section	blank. Third-party billing requires writ	len authorization.	
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Contact Name	KC			- 1	A Carlotte				
Company Name: Contact Name: Street Address: City, State, Zip: Phone: Company Name: Company	honory michel mas	TU		E	Address:			-	
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(If applicable, EMSL will provide)		Samples (MA)	Sampl			Comm	nercial (Taxable) Resid	dential (Non-taxable)	
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M030 Micro 5	M032 Allergenco-D	M024 Pseudomona			M116 Sewage Screen - Water (MPN**)				
M041 Fungal Direct Exam	nination	M015 Heterotrophic	Plate Count			M117 Sewag	e Screen - Swab (P/A***)		
M169 Pollen ID & Enumer	169 Pollen ID & Enumeration M017 Total Colifornia				M013 Sewage Screen - Swab (MFT*)				
M280 Dust Characterization	M280 Dust Characterization Level-1 M018 Total Coli								
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Cladosporium, Stachyboti		M029 Enterococci (195	1			Allergen (Cat, Dog, Cockroad	ch. Dust Mite)	
M007 Culturable Fungi-Su	urface Samples (Genus ID & Count)	M129 Enterococci (A***)		M095 Bacter		.,,	
	urface Samples (Includes Penicillum,	M180 Real Time qP	PCR-ERMI 36	Panel		Other - See	Analytical Price Guide for Tes	st Code	
Aspergillus, Cladosporium	n, Stachybotrys Species ID & Count)	M025 Sewage Scre	en - Water (M	MFT*)		Legionella A	nalysis Please use EMSL L	egionella COC	
M009 Bacteria Culture Gra	am Stain & Count	*MFT= Membrane F		inique					
M010 Bacteria Count & ID		***P/A = Presence/							
M011 Bacteria Count & ID) - 5 Most Prominent	P/A = Presence//		Nes					
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EMSI Analytical Inc	's Laboratory Terms and Conditions as								
EMSL Analytical, Inc	c.'s Laboratory Terms and Conditions ar constitutes a	re incorporated into the acceptance and ackno					nission of samples to EMSI	L Analytical, Inc.	



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107767

= - (800) 220-3675 = - CinnMicroLab@emsl.com

The solution of the solution o	Temperature (Lab Use Only	Date / Time Collected	Volume/Area	Test Code	Potable (Only for		Sample Location/Description	Sample #
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AGREE TO ELECTRONIC SIGNATURE (By checking | consent to signing this Chain of Custody document by electronic signature.)

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.



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:
 132107766

 Customer ID:
 COVI50

 Customer PO:
 458085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/14/2021

 Woburn, MA 01801
 Received Date: 10/15/2021

 Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

nom bank dampies (Linez metres del 200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107766-0012 B-1 3rd Floor Room 381, Uninsulated Return Duct	132107766-0013 B-2 3rd Floor Clerk of Court Criminal, Uninsulated Return Duct	132107766-0014 B-3 3rd Floor Clerk of Superior Court Secretary Pool, Uninsulated Return Duct	132107766-0015 B-4 3rd Floor Clerk of Superior Court Civil Room 300, Uninsulated Return Duct	132107766-0016 B-5 3rd Floor Law Library, Uninsulated Return			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	-	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	Low	Low	Low	Low	Low			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	-	-	-			
Fibrous Particulate	-		-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

⁻ 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.



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: 132107766 Customer ID: COVI50 Customer PO: 458085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/14/2021 Received Date: 10/15/2021

Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

nom rapo dampios (Emez metres del 200)									
Lab Sample Number: Client Sample ID: Sample Location:	132107766-0001 TL-01 3rd Floor Room 350, Uninsulated Supply Duct	132107766-0002 TL-02 3rd Floor Room 350, Uninsulated Return Duct	132107766-0003 TL-03 3rd Floor Room 371, Insulated Supply Duct	132107766-0004 TL-04 3rd Floor Room 371, Uninsulated Return Duct	132107766-0005 TL-05 3rd Floor Room 370, Uninsulated Return Duct				
Spore Types	Category	Category	Category	Category	Category				
Alternaria (Ulocladium)	-	-	-	-	-				
Ascospores	-	-	-	-	-				
Aspergillus/Penicillium	-	-	-	-	-				
Basidiospores	-	-	-	-	-				
Bipolaris++	-	-	-	-	-				
Chaetomium++	-	-	-	-	-				
Cladosporium	*High*	*Medium*	*High*	*Low*	*High*				
Curvularia	-	-	-	-	-				
Epicoccum	-	-	-	Rare	-				
Fusarium++	-	-	-	-	-				
Ganoderma	-	-	-	-	-				
Myxomycetes++	-	-	-	-	-				
Pithomyces++	-	-	-	-	-				
Rust	-	-	-	-	-				
Scopulariopsis/Microascus	-	-	-	-	-				
Stachybotrys/Memnoniella	-	-	-	-	-				
Unidentifiable Spores	-	-	-	-	-				
Zygomycetes	-	-	-	-	-				
Hyphal Fragment	-	-	-	-	-				
Insect Fragment	-	-	-	-	-				
Pollen	-	-	-	Low	-				
Fibrous Particulate	-	-	-	-	-				

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

Denotes Not Detected.

Steve Grise, Laboratory Manager or other Approved Signatory

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

⁺⁺ 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.



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:** 132107766 **Customer ID:** COVI50 **Customer PO:** 458085

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TRC

 300 Wildwood Avenue
 Collected Date: 10/14/2021

 Woburn, MA 01801
 Received Date: 10/15/2021

 Analyzed Date: 10/18/2021

Project: 458085 - Springfield

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

Hom rape damples (Lind Linethou Micko-301-200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107766-0006 TL-06 3rd Floor Room 370, Insulated Supply	132107766-0007 TL-07 3rd Floor Room 380, Uninsulated Supply Duct	132107766-0008 TL-08 3rd Floor Hall at Room 343, Uninsulated Supply Duct	132107766-0009 TL-09 3rd Floor Clerk of Superior Court Criminal, Uninsulated Supply Duct	132107766-0010 TL-10 3rd Floor Clerk of Superior Court Secretary Pool, Uninsulated Supply Duct			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	-	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	*High*	*High*	*High*	*Medium*	*Medium*			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	-	-	-	-	-			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	-	-	-			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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Project ID:

Attention: Ann D. Eckmann

TRC

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Phone: (781) 933-2555

Fax:

Collected Date: 10/14/2021 Received Date: 10/15/2021

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Project: 458085 - Springfield

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

Trotti Tupe Guitiples (Elitor Interior Interior)						
Lab Sample Number: Client Sample ID: Sample Location:	132107766-0011 TL-11 3rd Floor Law Library, Insulated Supply Duct					
Spore Types	Category	-	-	-	-	
Alternaria (Ulocladium)	-					
Ascospores	-					
Aspergillus/Penicillium	-					
Basidiospores	-					
Bipolaris++	-					
Chaetomium++	-					
Cladosporium	*High*					
Curvularia	-					
Epicoccum	-					
Fusarium++	-					
Ganoderma	-					
Myxomycetes++	-					
Pithomyces++	-					
Rust	-					
Scopulariopsis/Microascus	-					
Stachybotrys/Memnoniella	-					
Unidentifiable Spores	-					
Zygomycetes	-					
Hyphal Fragment	-					
Insect Fragment	-					
Pollen	-					
Fibrous Particulate	-					

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

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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.

OrderID: 132107766



Microbiology Chain of Custody Form

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132107766

PHONE (800) 220-3675

EMAIL: CinnMicroLab@emsl.com If Bill-To is the same as Report-To leave this section blank, Third-party billing requires written authorization Customer ID Company Name: 1/2 Company Name: Information Information Billing Contact: An Echnan / n.h Muste Street Address 300 Willward Ave Customer City, State, Zip: City, State, Zip Country Billing wisorn ma oigo Phone: 603396 260 Email(s) for Report: Email(s) for Invoice O'Me Coperios compraccara o me coperios. a archmarke Tre Coppers Project Information Purchase Order 485 08T STIMEFER Name/No: EMSL LIMS Project ID State Zip Code State of Connecticut (CT) must select project location: (If applicable, EMSL will provide) Samples Samples Commercial (Taxable) Residential (Non-taxable) Collected: Collected Sampled By Name No. of Samples Sampled By Signatur Michael MCCOST Sterile, Sodium Thiosulfate Preserved Bottle Used: Biocide Used in Source (specify) Public Water Supply Samples: Note: All results may automatically be reported to DOH if required by State. Turn-Around-Time (TAT) Please call shead for large projects and/or turnaround times 3 Hours or Less. "32 Hour TAT available for nelect lests 48 Hour 3 Hour X 24 Hour 72 Hour 6 Hour 32* Hour 96 Hour 1 Week 2 Week MICROBIOLOGY TEST CODES M001 Air-O-Cell M174 MoldSnar 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*) M730 Methicillin-resistant Staph, aureus (MRSA) M281 Dust Characterization Level-2 M031 Rapid-growing non-TB Mycobacteria Detection & M114 Total Coliform & E. Coli Enumeration (Colilert MPN**) Enumeration M005 Viable Fungi-Air Samples (Genus ID & Count) M019 Fecal Coliform (MFT*) M006 Viable Fungi-Air Samples (Includes Penicillum, Aspergillus, M020 Fecal Streptococcus (MFT*) M014 Endotoxin Analysis Cladosporium, Stachybotrys Species ID & Count) M029 Enterococci (MFT*) M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) M007 Culturable Fungi-Surface Samples (Genus ID & Count) M129 Enterococci (Enterolert P/A***) M095 Bacteroides M008 Culturable Fungi-Surface Samples (Includes Penicillum M180 Real Time qPCR-ERMI 36 Panel Other - See Analytical Price Guide for Test Code Aspergillus, Cladosporium, Stachybotrys Species ID & Count) M025 Sewage Screen - Water (MFT*) Legionella Analysis Please use EMSL Legionella COC *MFT= Membrane Filtration Technique M009 Bacteria Culture Gram Stain & Count "MPN = Most Probable Number M010 Bacteria Count & ID - 3 Most Prominent M011 Bacteria Count & ID - 5 Most Prominent ***P/A = Presence/Absence Potable / Non-Sample Type Temperature Test Code Potable (Only for Volume/Area Date / Time Collected Sample # Sample Location/Description (Lab Use Only) (Matrix) Water) Example: Sample 1 Kitchen Water Potable M017 1,000 ml 1/1/2021 3:30pm Sa Attacked Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.) Method of Shipment Sample Condition Upon Receipt Drap @ LAB Relinquished by: Date/Time Received by 10-15-2 Relinquished by Received by: ontrolled Document - COC-34 Micro R13 93/02/2021 dy document by electronic signature.) AGREE TO ELECTRONIC SIGNATURE (By checking, I consent

Page 1 of

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entrety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by customer.



additional Pages of the Chain of Custody are only necessary if needed for additional samp

Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number / Lab Use Only

132107766

PHONE (800) 220-3675

EMAIL CinnMicroLab@emsl.com

Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only
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2



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: 132107950 Customer ID: COVI50 Customer PO: 485085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/18/2021

 Woburn, MA 01801
 Received Date: 10/22/2021

 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

nom tape samples (Lindt Method Miloto-301-200)								
Lab Sample Number:	132107950-0001	132107950-0002	132107950-0003	132107950-0004	132107950-0005			
Client Sample ID:	TL-01	TL-02	TL-03	TL-04	TL-05			
Sample Location:	2nd Floor, Room 224 - Insulated Supply Duct	2nd Floor, Room 224 - Uninsulated Return Duct	2nd Floor, Room 223 - Uninsulated Supply Duct	2nd Floor, Room 223 - Uninsulated Return Duct	2nd Floor, Room 230 - Uninsulated Return Duct			
	Supply Duct	Return Duct	Supply Duct	Return Duct	Return Duct			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	-	*High*	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	*High*	*Medium*	*High*	*Medium*	Low			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	-	-	-	-	Low			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Aureobasidium++	-	*High*	*Low*	*Medium*	Low			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	-	-	-			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

⁻ 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.



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: 132107950 Customer ID: COVI50 Customer PO: 485085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/18/2021

 Woburn, MA 01801
 Received Date: 10/22/2021

 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

_	ironi Tape Samples (EMSL Method Micko-SOF-200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107950-0006 TL-06 2nd Floor, Room 230 - Insulated Supply Duct	132107950-0007 TL-07 2nd Floor, Elevator #8 Lobby - Uninsulated Supply Duct	132107950-0008 TL-08 2nd Floor, Room 228 - Insulated Supply Duct	132107950-0009 TL-09 2nd Floor, Room 228 - Uninsulated Return Duct	132107950-0010 TL-10 2nd Floor, Clork of District Court Civil - Insulated Supply Duct				
Spore Types	Category	Category	Category	Category	Category				
Alternaria (Ulocladium)	-	-	-	-	-				
Ascospores	-	-	-	-	-				
Aspergillus/Penicillium	-	-	-	-	-				
Basidiospores	-	-	-	-	-				
Bipolaris++	-	-	-	-	-				
Chaetomium++	-	-	-	-	-				
Cladosporium	*High*	*High*	*High*	*Medium*	*High*				
Curvularia	-	-	-	-	-				
Epicoccum	-	-	Rare	-	-				
Fusarium++	-	-	-	-	-				
Ganoderma	-	-	-	-	-				
Myxomycetes++	-	-	-	Low	-				
Pithomyces++	-	-	-	Rare	-				
Rust	-	-	-	-	-				
Scopulariopsis/Microascus	-	-	-	-	-				
Stachybotrys/Memnoniella	-	-	-	-	-				
Unidentifiable Spores	-	-	-	-	-				
Zygomycetes	-	-	-	-	-				
Aureobasidium++	-	*Medium*	*Low*	-	-				
Hyphal Fragment	-	-	-	-	-				
Insect Fragment	-	-	-	-	-				
Pollen	-	-	-	-	-				
Fibrous Particulate	-	-	-	-	-				

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

⁻ 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.



300 Wildwood Avenue

Woburn, MA 01801

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: 132107950 Customer ID: COVI50 Customer PO: 485085

Project ID:

Phone: (781) 933-2555

Fax:

Collected Date: 10/18/2021 Received Date: 10/22/2021 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

Attention: Ann D. Eckmann

TRC

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

nom rape dampies (Linde Method MidNo-301-200)								
Lab Sample Number:	132107950-0011	132107950-0012	132107950-0013	132107950-0014	132107950-0015			
Client Sample ID:	TL-11	TL-12	TL-13	TL-14	TL-15			
Sample Location:	2nd Floor, Clerk of District Court Civil - Uninsulated Return Duct	2nd Floor, 216 - Uninsulated Return Duct	2nd Floor, 216 - Uninsulated Supply Duct	2nd Floor, 211 - Uninsulated Return Duct	2nd Floor, 211 - Insulated Supply Duct			
		Buct	Duct	Duct	Duct			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	-	-			
Basidiospores	-	-	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	*Low*	*Medium*	*High*	*Low*	*High*			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	Low	-	-	Low	-			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Aureobasidium++	*Low*	*Low*	-	Rare	-			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	-	-	Low			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

⁻ 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.



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EMSL Order: 132107950 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Collected Date: 10/18/2021 **Received Date: 10/22/2021 Analyzed Date: 10/25/2021**

Fax:

Project: 485085 - Springfield

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

nom rape dampies (Linez metres del 200)									
Lab Sample Number: Client Sample ID:	132107950-0016 TL-16	132107950-0017 TL-17	132107950-0018 TL-18	132107950-0019 TL-19					
Sample Location:	2nd Floor, 221 - Uninsulated Supply Duct	2nd Floor, 221 - Uninsulated Return Duct	2nd Floor, 219 - Uninsulated Return Duct	2nd Floor, 219 - Insulated Supply Duct					
Spore Types	Category	Category	Category	Category	-				
Alternaria (Ulocladium)	-	-	-	-					
Ascospores	-	-	-	-					
Aspergillus/Penicillium	-	-	-	-					
Basidiospores	-	-	-	-					
Bipolaris++	-	-	-	-					
Chaetomium++	-	-	-	-					
Cladosporium	*High*	*Medium*	*Medium*	*High*					
Curvularia	-	-	-	-					
Epicoccum	-	-	-	-					
Fusarium++	-	-	-	-					
Ganoderma	-	-	-	-					
Myxomycetes++	-	-	-	-					
Pithomyces++	-	-	-	-					
Rust	-	-	-	-					
Scopulariopsis/Microascus	-	-	-	-					
Stachybotrys/Memnoniella	-	-	-	-					
Unidentifiable Spores	-	-	-	-					
Zygomycetes	-	-	-	-					
Aureobasidium++	-	*Medium*	*Medium*	-					
Hyphal Fragment	-	-	-	-					
Insect Fragment	-	-	-	-					
Pollen	Medium	-	-	-					
Fibrous Particulate	-	-	-	-					

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.

OrderID: 132107950



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

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132107950

PHONE: (800) 220-3675

			-		if Bill-	-To is the same as Rep	ort-To leave this section	blank. Third-party billing requires wri	ten authorization.
	Customer ID:				Billing I	D:			
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Info	Street Address:	10 0 4		- Lo	Street /	Address:			The state of the s
	City, State, Zip:	USURAL MA 01801	Country	r = =	City, St	ate, Zip:			Country:
Customer	Phone: / /2 -				Phone:			- 36	
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9.53	IN THE		MICRO	OBIOLOGY TES	STCODE	ES		- Israel	
M001	Air-O-Cell	M174 MoldSnap	M012 Pseudomonas	s aeruginosa (F	P/A***)		M115 Sewag	e Screen - Water (P/A***)	
0.6192	Micro 5	M032 Allergenco-D	M024 Pseudomonas	s aeruginosa (N	AFT*)		M116 Sewag	e Screen - Water (MPN**)	
1000	Fungal Direct Exam		M015 Heterotrophic					e Screen - Swab (P/A***)	100
Versa.	Pollen ID & Enumer		M017 Total Coliform			***)	100	e Screen - Swab (MFT*)	MOCAL STATE
	Dust Characterization Dust Characterization		M018 Total Coliform & E. Coli (MFT*) M114 Total Coliform & E. Coli Enumeration (Collect MEN*) M018 Repire recycle poor TB Mycobacteria Detection						
		nples (Genus ID & Count)	M114 Total Coliform & E. Coli Enumeration (Colilert MPN**) M019 Fecal Coliform (MFT*) M019 Fecal Coliform (MFT*)						
		mples (Includes Penicillum, Aspergillus,	M020 Fecal Strepto				M014 Endoto	xin Analysis	
		ys Species ID & Count)	M029 Enterococci (MFT*) M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite) M129 Enterococci (Enterolert P/A***) M095 Bacteroides					ch, Dust Mite)	
M007	Culturable Fungi-Su	rface Samples (Genus ID & Count)							
		rface Samples (Includes Penicillum,	M180 Real Time qP	CR-ERMI 36 P	anel		Other - See	Analytical Price Guide for Tes	st Code
Aspe	rgillus, Cladosponum	, Stachybotrys Species ID & Count)	M025 Sewage Scree	en - Water (MF	T*)		Legionella A	nalysis Please use EMSL L	egionella COC
M009	Bacteria Culture Gra	am Stain & Count	*MFT= Membrane F		que				
	Bacteria Count & ID		**MPN = Most Prob			-			
M011	Bacteria Count & ID	- 5 Most Prominent	***P/A = Presence/A	The state of the s	Otro I			1	
	Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Potable (O Water	nly for	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
E	ample: Sample 1	Kitchen	Water	Potabl	e	M017	1,000 ml	1/1/2021 3:30pm	
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Contro	fled Document - COC-34 M	ficro R13 03/02/2021	AGREE TO ELECTRO	ONIC SIGNATUR	RE (By ch	ecking, I consent to	signing this Chain o	Custody document by electron	nic signature.)

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Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107950

=- : ∈ (800) 220-3675 = : ⊢ ∟ CinnMicroLab@emst.com

Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only
TL-I	21) floor four 224			Moy		10 -18 21 440	
TL-2	28 floot Room ZEY			1		10-18-51 448	um
TL-3	Winsulated Return DUCT 2) floor form 223	N					
	Winsulated Supply De No Floor Poory 223		•				
TC-4 TC-5	20 floor MOM 230	Dod					
	Winsula Tro Return Duc at Floor Room 230						
H-6	20 PLOOF Eleverar KT						
TL-N	uniosulated Synly Dict	Lossy					
TL-8	20 floor LOOM 228 insulated Sully Dut						
th-9	unastered Room Dun Dun	т					
TL-10	29 Clear Clark of District of	court coul					
TL-11	MASSULETED RETURN DO	CT					
12-12	20 floor Rosm 216	Duct					
TC-13	anyther poor 216	ve r					
TL-14	motion from ziv	1 Nuct					
TC-15	20 foot from 211 insulated Supply Du						
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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: 132107948 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/19/2021 **Received Date: 10/22/2021**

Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

nom rape dampies (Emot metros mierco-dor-200)									
Lab Sample Number: Client Sample ID: Sample Location:	132107948-0001 TL-01 Garage Level, Room G42A · Uninsulated Supply Duct	132107948-0002 TL-02 Garage Level, Room G42 - Uninsulated Return Duct	132107948-0003 TL-03 Garage Level, Room G42 - Uninsulated Return Duct at Outside Air Intake	132107948-0004 TL-04 Garage Level, Room G42A · Uninsulated Return Duct	132107948-0005 TL-05 Garage Level, Room G42A at Paint Shop- Uninsulated Return Duct				
Spore Types	Category	Category	Category	Category	Category				
Alternaria (Ulocladium)	-	-	-	Rare	Rare				
Ascospores	-	-	-	-	-				
Aspergillus/Penicillium	-	-	-	-	-				
Basidiospores	-	-	Rare	Rare	Low				
Bipolaris++	-	-	-	-	-				
Chaetomium++	-	-	-	-	-				
Cladosporium	*High*	*Medium*	-	Low	Low				
Curvularia	-	-	-	-	-				
Epicoccum	-	-	-	-	-				
Fusarium++	-	-	-	-	-				
Ganoderma	-	-	-	-	-				
Myxomycetes++	-	-	Rare	-	Low				
Pithomyces++	-	-	-	-	-				
Rust	-	-	-	-	-				
Scopulariopsis/Microascus	-	-	-	-	-				
Stachybotrys/Memnoniella	-	-	-	-	-				
Unidentifiable Spores	-	-	-	-	-				
Zygomycetes	-	-	-	-	-				
Aureobasidium++	-	-	-	Low	-				
Hyphal Fragment	-	-	-	-	-				
Insect Fragment	-	-	-	-	-				
Pollen	-	-	Low	Low	-				
Fibrous Particulate	-	-	-	-	-				

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.



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EMSL Order: 132107948 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/19/2021 **Received Date: 10/22/2021**

Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

Lab Sample Number: Client Sample ID: Sample Location:	132107948-0006 TL-06 Plaza, Room 138B - Uninsulated Return Duct	132107948-0007 TL-07 Plaza, Room 138B - Uninsulated Supply Duct	132107948-0008 TL-08 Plaza, Room 167A - Uninsulated Supply Duct	132107948-0009 TL-09 Plaza, Room 167A - Uninsulated Return Duct	132107948-0010 TL-10 Plaza, Room 167 Northeast Corner - Uninsulated Return Duct
Spore Types	Category	Category	Category	Category	Category
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	-	-	Low	-
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	Low	*High*	*Medium*	Low	Low
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	Rare	-
Fusarium++	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	Low	-	-	Low	Low
Pithomyces++	Rare	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Aureobasidium++	-	-	*Medium*	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	Low	Low	-	-	Low
Fibrous Particulate	-	-	-	-	-

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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.



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EMSL Order: 132107948 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/19/2021 **Received Date: 10/22/2021**

Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

		bampioo (Emoz mo		,	
Lab Sample Number: Client Sample ID: Sample Location:	132107948-0011 TL-11 Plaza, Room 167 East Corner - Uninsulated Supply Duct	132107948-0012 TL-12 Plaza, Room 147 - Uninsulated Return Duct	132107948-0013 TL-13 Plaza, Room 147 - Uninsulated Supply Duct		
Spore Types	Category	Category	Category	-	-
Alternaria (Ulocladium)	-	-	-		
Ascospores	-	-	-		
Aspergillus/Penicillium	-	-	-		
Basidiospores	Rare	-	-		
Bipolaris++	-	-	-		
Chaetomium++	-	-	-		
Cladosporium	*High*	*Low*	*High*		
Curvularia	-	-	-		
Epicoccum	-	-	-		
Fusarium++	-	-	-		
Ganoderma	-	-	-		
Myxomycetes++	Low	Low	Low		
Pithomyces++	-	-	-		
Rust	-	-	-		
Scopulariopsis/Microascus	-	-	-		
Stachybotrys/Memnoniella	-	-	-		
Unidentifiable Spores	-	-	-		
Zygomycetes	-	-	-		
Aureobasidium++	-	*Low*	-		
Hyphal Fragment	-	-	-		
Insect Fragment	-	-	-		
Pollen	Rare	-	-		
Fibrous Particulate	-	-	-		

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

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

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.

OrderID: 132107948



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107948

PHONE (800) 220-3675 FMAII CinnMicroLab@emsl.com

			Sam	ple Condition Upon	Pacaint		
	Special Instructions and/or	Regulatory Requiremen	E	MIGE BOOT		2021	
				RHC	Sn 1831	744 742 2 2021	
	Sues	roell					
Example: Sample 1	Kitchen	Water	Potable	M017	1,000 ml	1/1/2021 3:30pm	
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only fo Water)	r Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only)
Ciadosporium, Stachybotrys M007 Culturable Fungi-Surf M008 Culturable Fungi-Surf Aspergillus, Cladosporium, M009 Bacteria Culture Gran M010 Bacteria Count & ID - M011 Bacteria Count & ID -	Level-1 Level-2 Des (Genus ID & Count) Des (Genus ID & Count) Des (Includes Penicillum, Aspergillus, Species ID & Count) Des Samples (Genus ID & Count) Des Samples (Includes Penicillum, Stachybotrys Species ID & Count) Des Stain & Count Des Samples (Includes Penicillum, Des Samples (Includes Penicillum, Des Stain & Count Des Stai	M024 Pseudomon. M015 Heterotrophi M017 Total Colifor M018 Total Colifor M114 Total Colifor M019 Fecal Colifor M020 Fecal Strept M029 Enterococci M129 Enterococci M129 Enterococci M180 Real Time q M025 Sewage Scn "MFT= Membrane "MPN = Most Prol "P/A = Presence.	m & E. Coli (Colilert P/m & E. Coli (MFT*) m & E. Coli Enumeration m (MFT*) occoccus (MFT*) (MFT*) (Enterolert P/A***) PCR-ERMI 36 Panel een - Water (MFT*) Filtration Technique bable Number (Absence	on (Colilert MFN**)	M116 Sewage M117 Sewage M013 Sewage M730 Methicil M031 Rapid-g Enumeration M014 Endoto: M044 Group / M095 Bactero Other - See A Legionella Ai	Mergen (Cat, Dog, Cockroad ides nalytical Price Guide for Tes nalysis Please use EMSL L	a Detection & ch. Dust Mite) at Code
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Company Name:	le			pany Name:			***************************************



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

1 3 2 1 0 7 9 4 8

□- (800) 220-3675 E La CinnMicroLab@emsl.com

							T	
Sample #	Sample Location/Description	Sample Ty (Matrix)	20	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only
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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:
 132107947

 Customer ID:
 COVI50

 Customer PO:
 485085

Project ID:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC Fax:

 300 Wildwood Avenue
 Collected Date: 10/20/2021

 Woburn, MA 01801
 Received Date: 10/22/2021

 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

	nom rupe dumples (Emot metros del 200)									
Lab Sample Number: Client Sample ID: Sample Location:	132107947-0001 TL-01 Garage Level, Room G42 · Uninsulated Supply Duct at AC4	132107947-0002 TL-02 Garage Level, Room G42 Hall at Door to Garage - Uninsulated Supply Duct	132107947-0003 TL-03 Garage Level, Room G42 - Uninsulated Return	132107947-0004 TL-04 Garage Level, Room G42C - Uninsulated Return Duct	132107947-0005 TL-05 Plaza, Room 142 - Insulated Supply Duct					
Spore Types	Category	Category	Category	Category	Category					
Alternaria (Ulocladium)	-	-	-	-	-					
Ascospores	-	-	-	-	-					
Aspergillus/Penicillium	-	-	-	-	-					
Basidiospores	-	-	-	Low	-					
Bipolaris++	-	-	-	-	-					
Chaetomium++	-	-	-	-	-					
Cladosporium	*Low*	*Medium*	Low	Low	*High*					
Curvularia	-	-	-	Rare	-					
Epicoccum	-	-	Low	-	-					
Fusarium++	-	-	-	-	-					
Ganoderma	-	-	-	-	-					
Myxomycetes++	-	-	Low	Rare	-					
Pithomyces++	-	-	-	-	-					
Rust	-	-	-	-	-					
Scopulariopsis/Microascus	-	-	-	-	-					
Stachybotrys/Memnoniella	-	-	-	-	-					
Unidentifiable Spores	-	-	-	-	-					
Zygomycetes	-	-	-	-	-					
Aureobasidium++	*Low*	*Low*	Low	Rare	*Medium*					
Hyphal Fragment	-	-	-	-	-					
Insect Fragment	-	-	-	-	-					
Pollen	-	Low	Low	Low	-					
Fibrous Particulate	-	-	-	-	-					

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

Steve Grise, Laboratory Manager or other Approved Signatory

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⁻ 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.



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 EMSL Order:
 132107947

 Customer ID:
 COVI50

 Customer PO:
 485085

Project ID:

Attention: Ann D. Eckmann Phone: (781) 933-2555

Fax:

 300 Wildwood Avenue
 Collected Date: 10/20/2021

 Woburn, MA 01801
 Received Date: 10/22/2021

 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

TRC

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

	from Tape Samples (EMSL Method MICRO-SOP-200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107947-0006 TL-06 Plaza, Room 142 - Uninsulated Return Duct	132107947-0007 TL-07 Plaza, Room 166 - Uninsulated Return Duct	132107947-0008 TL-08 Plaza, Room 166 - Uninsulated Supply Duct	132107947-0009 TL-09 Plaza, Room 114A - Uninsulated Return Duct	132107947-0010 TL-10 Plaza, Room 119 - Uninsulated Supply Duct				
Spore Types	Category	Category	Category	Category	Category				
Alternaria (Ulocladium)	-	-	-	-	-				
Ascospores	-	-	-	-	-				
Aspergillus/Penicillium	-	-	-	-	-				
Basidiospores	Rare	-	-	-	-				
Bipolaris++	-	-	-	-	-				
Chaetomium++	-	-	-	-	-				
Cladosporium	Low	Low	*Medium*	Low	*High*				
Curvularia	-	-	-	-	-				
Epicoccum	-	-	-	-	-				
Fusarium++	-	-	-	-	-				
Ganoderma	-	-	-	-	-				
Myxomycetes++	Rare	Low	Low	Low	-				
Pithomyces++	-	-	-	-	-				
Rust	-	-	-	-	-				
Scopulariopsis/Microascus	-	-	-	-	-				
Stachybotrys/Memnoniella	-	-	-	-	-				
Unidentifiable Spores	-	-	-	-	-				
Zygomycetes	-	-	-	-	-				
Aureobasidium++	-	Rare	Low	Low	*Low*				
Hyphal Fragment	-	-	-	-	-				
Insect Fragment	-	-	-	-	-				
Pollen	-	-	-	-	-				
Fibrous Particulate	-	-	-	-	-				

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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⁼ Sample contains fruiting structures and/or hyphae associated with the spores.



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EMSL Order: 132107947 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/20/2021 **Received Date: 10/22/2021**

Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

Tom Tupo cumples (Linez Institute Institute Co. 200)							
Lab Sample Number: Client Sample ID: Sample Location:	132107947-0011 TL-11 Plaza, Room 114 - Uninsulated Supply Duct	132107947-0012 TL-12 Plaza, Room 138A - Uninsulated Return Duct					
Spore Types	Category	Category	-	-	-		
Alternaria (Ulocladium)	-	-					
Ascospores	-	-					
Aspergillus/Penicillium	-	-					
Basidiospores	-	-					
Bipolaris++	-	-					
Chaetomium++	-	-					
Cladosporium	*Medium*	Medium					
Curvularia	-	-					
Epicoccum	-	-					
Fusarium++	-	-					
Ganoderma	-	-					
Myxomycetes++	-	Rare					
Pithomyces++	-	-					
Rust	-	-					
Scopulariopsis/Microascus	-	-					
Stachybotrys/Memnoniella	-	-					
Unidentifiable Spores	-	-					
Zygomycetes	-	-					
Aureobasidium++	Low	-					
Hyphal Fragment	-	-					
Insect Fragment	-	-					
Pollen	High	Low					
Fibrous Particulate	-	-					

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

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OrderID: 132107947



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107947

PHONE (800) 220-3675

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Customer ID:			T	Billing I						
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MSL LIMS Project I applicable, EMSL will	0.	State Samples	Zip Cod Sample				ecticut (CT) must select proj			
ovide)		Collected:	Collected	i:		Comm		dential (Non-taxa		
Sampled By Name McLeel A	NCCUTE	Sampled By Signati	mat				No. of Sa in Shipm			
S	erile, Sodium Thiosulfate Preserved Bottl	e Used: Biocide	Used in Source	e (specify	7					
,	Public Water Supply Sa					to DOH if require	i by State. ble for select lesis only; samples must	ha milmilled by 16:33		
3 Hour	Turn-Around-	32° Hour	48 Hour	is and/or turn	72 Hour	96 Hour	1 Week	2 Week		
			OBIOLOGY TE	ST CODE						
M001 Air-O-Cell	M174 MoldSnap				.5	M115 Sewage	Screen - Water (P/A***)			
M030 Micro 5	M032 Allergenco-D		M012 Pseudomonas aeruginosa (P/A***) M024 Pseudomonas aeruginosa (MFT*)				M116 Sewage Screen - Water (P/A***) M116 Sewage Screen - Water (MPN**)			
M041 Fungal Direct I	Examination	M015 Heterotrophic				M117 Sewage	M117 Sewage Screen - Swab (P/A***)			
1169 Pollen ID & En	umeration	M017 Total Coliforn	n & E. Coli (Co	filert P/A"	*)	M013 Sewage	M013 Sewage Screen - Swab (MFT*)			
M280 Dust Characte	rization Level-1	M018 Total Coliforn	M018 Total Coliform & E. Coli (MFT*)				M730 Methicillin-resistant Staph, aureus (MRSA)			
M281 Dust Characte	ization Level-2	M114 Total Coliforn	n & E. Coli Enu	meration	Collect MPN**)		rowing non-TB Mycobacteria	a Detection &		
1005 Viable Fungi-A	r Samples (Genus ID & Count)	M019 Fecal Colifor	m (MFT*)			Enumeration				
	r Samples (Includes Penicillum, Aspergillus,	M020 Fecal Strepto	M020 Fecal Streptococcus (MFT*)				M014 Endotoxin Analysis			
стацовропинг, эцест	ybotrys Species ID & Count)	M029 Enterococci	(MFT*)			M044 Group A	Mergen (Cat, Dog, Cockroad	ch, Dust Mite)		
	gi-Surface Samples (Genus ID & Count)	M129 Enterococci				M095 Bactero				
	gi-Surface Samples (Includes Penicillum, orium, Stachybotrys Species ID & Count)	M180 Real Time qF					nalytical Price Guide for Tes			
		M025 Sewage Screen				Legionella Al	nalysis Please use EMSL L	egionena COC		
	e Gram Stain & Count & ID - 3 Most Prominent	"MPN = Most Prob		qua						
	& ID - 5 Most Prominent	***P/A = Presence/								
							T	Temperatur		
Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Potable (C	nly for	Test Code	Volume/Area	Date / Time Collected	(Lab Use On		
	HEALTH AND THE RESIDENCE OF THE			nly for r)	Test Code	Volume/Area	Date / Time Collected	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	nly for r)			VALUE OF BUILDING			
Sample #	HEALTH AND THE RESIDENCE OF THE	(Matrix)	Potable (C Wate	nly for r)			VALUE OF BUILDING	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	nly for r)			VALUE OF BUILDING	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix)	Potable (C Wate	only for r) le	M017		1/1/2021 3:30pm	(Lab Use On		
Sample #	See Attacle	(Matrix) Water	Potable (C Wate	REC	D RHYS	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample #	le 1 Kitchen	(Matrix) Water	Potable (C Wate	REC	D RHYS	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample # Example: Sample: Samp	Special Instructions and/or	(Matrix) Water	Potable (C Wate	REC EMS	D RHYS	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample # Example: Sample: Sample:	Special Instructions and/or	(Matrix) Water Regulatory Requirement	Potable (C Wate	REC EMS	D RHY O SL-BOSTON Processing Meth	1,000 ml	2021 ction, etc.)	(Lab Use On		
Sample # Example: Sample: Samp	See Attacle	(Matrix) Water	Potable (C Wate	REC EMS	D RHYO StBOSTON Processing Meth	1,000 ml	1/1/2021 3:30pm	(Lab Use On		
Sample # Example: Samp	Special Instructions and/or	(Matrix) Water Regulatory Requirement	Potable (C Wate	REC EMS	D RHY O SL-BOSTON Processing Meth	1,000 ml	2021 ction, etc.)	(Lab Use O		



Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107947

P = 14 = (800) 220-3675 E = 1 _ CinnMicroLab@emsl.com

Sample #	Sample Location/Description	Sample Type (Matrix)	Potable / Non- Potable (Only for Water)	Test Code	Volume/Area	Date / Time Collected	Temperature (Lab Use Only
TII	Garage level Room Gil	2				10-20-21	
TL-1	Garage level Boun G42	Hell D Da	out to Garage	Moy		1-20-21	
TL-3	CAMPELEUR (from GYZ CAMPELEUR (from GYZ UNICHATEL SUPPLY DIC Gercge level from GYZ	. 11					
	MININATES REFUNDED						
TL4	Grage Icuel Room 64 missiated Peturn D	VET					
しら	Plaza ROOM 142						
	PICZA ROM 142						
1-6	MARCHATED RETURN DU	ET					
11-7	minsulated peturn D						
	A1676 Room 166						
TL-8	Plaza Room 1140	cT					
1-9	Wasulated Meturn Duct						
	ALZE ROOM 119						
1-10	ALLE Room 119 unisolated soft Duct flaza form 114						
-11	Maza formily	100					
	Plaza Room 138A Unisulard RETORNOLET	<i>J</i>					
112	unsulard RETURNICET			V			
		-			-		
		-		4 1	0-182	n/	
			F	RECD FIT	1801		
				EMSL-BIOS	TON OCT	2 2 2021	
			-				
		1					
thod of Shipment_			Sample	Condition Upon	Receipt		
Dr.	p 0 665					-	
dinquished by	nud	Date/Time	Receive	ed by		Date/Time	

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.



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: 132107949
Customer ID: COVI50
Customer PO: 485085

Project ID:

Fax:

Attention: Ann D. Eckmann Phone: (781) 933-2555

TRC

 300 Wildwood Avenue
 Collected Date: 10/21/2021

 Woburn, MA 01801
 Received Date: 10/22/2021

 Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

nom rupe dumples (Emot metros del 200)								
Lab Sample Number: Client Sample ID: Sample Location:	132107949-0001 TL-01 Plaza, Room 131 - Uninsulated Return Duct	132107949-0002 TL-02 Plaza, Hall at Room 122 - Uninsulated Return Duct	132107949-0003 TL-03 Plaza, Room 121 - Uninsulated Supply Duct	132107949-0004 TL-04 Plaza, Room 121B - Uninsulated Return Duct	132107949-0005 TL-05 Plaza, Elevator #\$ Lobby - Uninsulated Supply Duct			
Spore Types	Category	Category	Category	Category	Category			
Alternaria (Ulocladium)	-	-	-	-	-			
Ascospores	-	-	-	-	-			
Aspergillus/Penicillium	-	-	-	Low	-			
Basidiospores	-	-	-	-	-			
Bipolaris++	-	-	-	-	-			
Chaetomium++	-	-	-	-	-			
Cladosporium	Low	Low	*Medium*	*Low*	*High*			
Curvularia	-	-	-	-	-			
Epicoccum	-	-	-	-	-			
Fusarium++	-	-	-	-	-			
Ganoderma	-	-	-	-	-			
Myxomycetes++	Low	-	-	-	-			
Pithomyces++	-	-	-	-	-			
Rust	-	-	-	-	-			
Scopulariopsis/Microascus	-	-	-	-	-			
Stachybotrys/Memnoniella	-	-	-	-	-			
Unidentifiable Spores	-	-	-	-	-			
Zygomycetes	-	-	-	-	-			
Aureobasidium++	Low	Low	Low	Low	-			
Hyphal Fragment	-	-	-	-	-			
Insect Fragment	-	-	-	-	-			
Pollen	-	-	-	-	-			
Fibrous Particulate	-	-	-	-	-			

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

Steve Grise, Laboratory Manager or other Approved Signatory

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

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

⁻ 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.



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Customer ID: COVI50
Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801 Phone: (781) 933-2555

Collected Date: 10/21/2021 **Received Date:** 10/22/2021

Analyzed Date: 10/25/2021

Fax:

Project: 485085 - Springfield

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

		Total Tape Campios (Emel metres en 200)									
Lab Sample Number:	132107949-0006	132107949-0007	132107949-0008	132107949-0009	132107949-0010						
Client Sample ID:	TL-06	TL-07	TL-08	TL-09	TL-10						
Sample Location:	Plaza, Room 124 - Uninsulated Return Duct	Plaza, Room 124 Attorney Booth - Uninsulated Supply Duct	Plaza, Hall at Room 140A - Uninsulated Return Duct	Plaza, Room 131 - Insulated Supply Duct	Plaza, Room 131 - Uninsulated Return Duct						
Spore Types	Category	Category	Category	Category	Category						
Alternaria (Ulocladium)	-	-	-	-	-						
Ascospores	-	-	-	-	-						
Aspergillus/Penicillium	-	-	-	-	Rare						
Basidiospores	-	-	-	-	Low						
Bipolaris++	-	-	-	-	-						
Chaetomium++	-	-	-	-	-						
Cladosporium	Low	*Medium*	*Medium*	*High*	*Low*						
Curvularia	-	-	-	-	Rare						
Epicoccum	-	-	-	-	-						
Fusarium++	-	-	-	-	-						
Ganoderma	-	-	-	-	-						
Myxomycetes++	-	-	-	-	-						
Pithomyces++	-	-	-	-	-						
Rust	-	-	-	-	-						
Scopulariopsis/Microascus	-	-	-	-	-						
Stachybotrys/Memnoniella	-	-	-	-	-						
Unidentifiable Spores	-	-	-	-	-						
Zygomycetes	-	-	-	-	-						
Aureobasidium++	Low	*Medium*	*Low*	*Medium*	*Low*						
Hyphal Fragment	-	-	-	-	-						
Insect Fragment	-	-	-	-	-						
Pollen	Low	-	-	-	-						
Fibrous Particulate	-	-	-	-	-						

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

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⁼ Sample contains fruiting structures and/or hyphae associated with the spores.



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EMSL Order: 132107949 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/21/2021 **Received Date: 10/22/2021**

Analyzed Date: 10/25/2021

Project: 485085 - Springfield

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

		Jampiee (Emez me			
Lab Sample Number:	132107949-0011	132107949-0012	132107949-0013	132107949-0014	132107949-0015
Client Sample ID:	TL-11	TL-12	TL-13	TL-14	TL-15
Sample Location:	Plaza, Room 110B at Room 108 - Insulated Supply Duct	Plaza, Room 110B at Room 109 - Uninsulated Return Duct	Plaza, Room 108 - Uninsulated Supply Duct	Plaza, Room 110B at Room 107 - Uninsulated Supply Duct	Plaza, Room 110B at Room 108 - Uninsulated Return Duct
			очрыу вист		
Spore Types	Category	Category	Category	Category	Category
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium++	-	-	-	-	-
Cladosporium	*High*	Low	*High*	*Medium*	*Low*
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium++	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Aureobasidium++	*Low*	Low	*Low*	*High*	*Low*
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	Low
Fibrous Particulate	-	-	-	-	-

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

Steve Grise, Laboratory Manager or other Approved Signatory

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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.



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EMSL Order: 132107949 Customer ID: COVI50 Customer PO: 485085

Project ID:

Attention: Ann D. Eckmann

TRC

300 Wildwood Avenue Woburn, MA 01801

Phone: (781) 933-2555

Fax:

Collected Date: 10/21/2021 **Received Date: 10/22/2021 Analyzed Date: 10/25/2021**

Project: 485085 - Springfield

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

				,	
Lab Sample Number: Client Sample ID: Sample Location:	132107949-0016 TL-16 ₁₀₃ Plaza, Room 65- Uninsulated Supply Duct	132107949-0017 TL-17 Plaza, Hall at Room 102 - Uninsulated Supply Duct			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-			
Ascospores	-	-			
Aspergillus/Penicillium	-	-			
Basidiospores	-	-			
Bipolaris++	-	-			
Chaetomium++	-	-			
Cladosporium	*High*	*Medium*			
Curvularia	-	-			
Epicoccum	-	-			
Fusarium++	-	-			
Ganoderma	-	-			
Myxomycetes++	-	-			
Pithomyces++	-	-			
Rust	-	-			
Scopulariopsis/Microascus	-	-			
Stachybotrys/Memnoniella	-	-			
Unidentifiable Spores	-	-			
Zygomycetes	-	-			
Aureobasidium++	*Low*	*High*			
Hyphal Fragment	-	-			
Insect Fragment	-	-			
Pollen	-	-			
Fibrous Particulate	-	-			

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

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OrderID: 132107949



Microbiology Chain of Custody Form EMSL Order Number / Lab Use Only

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

132107949

PHONE. (800) 220-3675

		AUGUST TO THE REAL PROPERTY OF THE PARTY OF		311		BURNEY MILES		innMicroLab@emsl.com	
Customer ID:				Billing		port-To leave this section	blank, Third-party billing requ	res written authorization.	
Company Name RC				Compa	iny Name:			338	
Company Name PLC Contact Name: Antidragan / Mile MCCazer Street Address: 300 W (Quest) AUR City, State. Zip: Wolfins Major (Country) Phone: 663 3962600				Billing					
E City. State. Zip: Cour				City			Country:		
Phone: WALLY MACLEO (Cou			y	City, State, Zip:			Country.		
Phone: 60									
Email(s) for Report	1	22		Email(s	s) for Invoice:				
Justin 4 M.O.	Deligiona com micaro	e Ile agous . C	Project Inform	nation					
Project Name/No: 485	ver spiraters					Pur Ord	chase der:		
MSL LIMS Project ID	3.	State	Zip Cod			State of Conn	ecticut (CT) must sele	ct project location:	
If applicable, EMSL will rovide)		Samples MA				Comm	Commercial (Taxable) Residential (Non-taxab		
Sampled By Name		Sampled By Signature:					No of Samples in Shipment		
Michael	Marie	moni	no	_			41	Shipment	
	e, Sodium Thiosulfate Preserved Bottle U		Used in Source						
	Public Water Supply Samp					to DOH if require			
3 Hour	6 Hour 24 Hour	32" Hour	48 Hour	ots and/or turn	72 Hour	96 Hour		es must be submitted by 11:30ar	
			OBIOLOGY TE	EST CODE					
4001 Air-O-Cell	M174 MoldSnap	M012 Pseudomona				M115 Sewage	Screen - Water (P/A	**)	
4030 Micro 5	M032 Allergenco-D	M024 Pseudomona							
1041 Fungal Direct Exam	M015 Heterotrophic Plate Count				M117 Sewage	M117 Sewage Screen - Swab (P/A**)			
4169 Pollen ID & Enume	M017 Total Coliform & E. Coli (Colifert P/A***)				M013 Sewage	M013 Sewage Screen - Swab (MFT*)			
M280 Dust Characterizati	M018 Total Coliform & E. Coli (MFT*)				M730 Methicil	M730 Methicillin-resistant Staph, aureus (MRSA)			
M281 Dust Characterizat	M114 Total Coliform & E. Coli Enumeration (Colifert MPN**)					M031 Rapid-growing non-TB Mycobacteria Detection & Enumeration			
A STATE OF THE PARTY OF THE PAR	imples (Genus ID & Count)	M019 Fecal Coliforn	All Francisco Contractor	No.		10000000			
M006 Viable Fungi-Air Sa Ciadosporium, Stachybol	M020 Fecal Streptococcus (MFT*)				M014 Endotos	M014 Endotoxin Analysis			
						15.535.55			
		M029 Enterococci				M044 Group A	Mergen (Cat, Dog, Coo	ckroach, Dust Mite)	
M007 Culturable Fungi-S	urface Samples (Genus ID & Count)	M129 Enterococci	(Enterolert P/A			M044 Group A M095 Bactero	Allergen (Cat, Dog, Coo ides	YA.	
M007 Culturable Fungi-S M008 Culturable Fungi-S		M129 Enterococci M180 Real Time qF	(Enterolert P/A PCR-ERMI 36 F	anel		M044 Group A M095 Bactero Other - See A	Allergen (Cat, Dog, Coo ides malytical Price Guide fo	or Test Code	
M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur	urface Samples (Genus ID & Count) urface Samples (Includes Penicillum, m, Stachybotrys Species ID & Count)	M129 Enterococci e M180 Real Time qF M025 Sewage Scre	(Enterolert P/A PCR-ERMI 36 F een - Water (Mi	Panel FT*)		M044 Group A M095 Bactero Other - See A	Allergen (Cat, Dog, Coo ides	or Test Code	
M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur M009 Bacteria Culture Gi	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count	M129 Enterococci M180 Real Time qF	(Enterolert P/A PCR-ERMI 36 F een - Water (Mi Filtration Techn	Panel FT*)	-	M044 Group A M095 Bactero Other - See A	Allergen (Cat, Dog, Coo ides malytical Price Guide fo	or Test Code	
M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur M009 Bacteria Culture Gi M010 Bacteria Count & II	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count D - 3 Most Prominent	M129 Enterococci M180 Real Time qF M025 Sewage Scre *MFT= Membrane R	(Enterolert P/A PCR-ERMI 36 feen - Water (Mi Filtration Technologie)	Panel FT*)		M044 Group A M095 Bactero Other - See A	Allergen (Cat, Dog, Coo ides malytical Price Guide fo	or Test Code	
M007 Culturable Fungi-S M008 Culturable Fungi-S	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count D - 3 Most Prominent	M129 Enterococci M180 Real Time qF M025 Sewage Scre *MFT= Membrane 6 **MPN = Most Prob	(Enterolert P/A PCR-ERMI 36 F een - Water (Mi Filtration Techn bable Number Absence Potable / Potable (C	Panel FT*) Hique Non- Only for	Test Code	M044 Group A M095 Bactero Other - See A	Allergen (Cat, Dog, Coo ides malytical Price Guide fo	r Test Code ISL Legionella COC	
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M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur M009 Bacteria Culture Gi M010 Bacteria Count & II M011 Bacteria Count & II Sample #	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count D - 3 Most Prominent D - 5 Most Prominent Sample Location/Description Kitchen	M129 Enterococci M180 Real Time qF M025 Sewage Scre *MFT= Membrane F **MPN = Most Prob ***PIA = Presence/ Sample Type (Matrix)	(Enterolert P/A PCR-ERMI 36 6 een - Water (Mi Filtration Techn able Number Absence Potable / Potable (C) Wate	Panel FT*) sique Non- Only for	Name of the last	M044 Group / M095 Bactero Other - See A Legionella An Volume/Area	Allergen (Cat. Dog. God ides unalytical Price Guide fon alysis Please use EM Date / Time Collec	or Test Code ISL Legionella COC Temperature (Lab Use Only)	
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M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur M009 Bacteria Culture Gi M010 Bacteria Count & II M011 Bacteria Count & II Sample #	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count D - 3 Most Prominent D - 5 Most Prominent Sample Location/Description Kitchen	M129 Enterococci M180 Real Time qF M025 Sewage Scre *MFT= Membrane F **MPN = Most Prob ***PIA = Presence/ Sample Type (Matrix)	(Enterolert P/A PCR-ERMI 36 6 een - Water (Mi Filtration Techn able Number Absence Potable / Potable (C) Wate	Panel FT*) sique Non- Only for er)	Name of the last	M044 Group / M095 Bactero Other - See A Legionella An Volume/Area	Allergen (Cat. Dog. God ides malytical Price Guide for malysis Please use EM Date / Time Collect	or Test Code ISL Legionella COC Temperature (Lab Use Only)	
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M007 Culturable Fungi-S M008 Culturable Fungi-S Aspergillus, Cladosporiur M009 Bacteria Culture Gi M010 Bacteria Count & II M011 Bacteria Count & II Sample #	urface Samples (Genus ID & Count) urface Samples (Includes Panicillum, m, Stachybotrys Species ID & Count) ram Stain & Count D - 3 Most Prominent D - 5 Most Prominent Sample Location/Description Kitchen	M129 Enterococci M180 Real Time qF M025 Sewage Scre *MFT= Membrane I **MPN = Most Prob ***PIA = PresenceI Sample Type (Matrix) Water	(Enterolert P/A PCR-ERMI 36 is een - Water (Mi Filtration Techn bable Number Absence Potable / Potable (C Wate	Panel FT') Non- Only for it) RE	EC'D RH	M044 Group A M095 Bactero Other - See A Legionella Ai Volume/Area 1,000 ml	Allergen (Cat. Dog. Goodes ides inalytical Price Guide fr halysis Please use EM Date / Time Collect 1/1/2021 3:30pp	or Test Code ISL Legionella COC Temperature (Lab Use Only)	
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Microbiology Chain of Custody Form

EMSL Analytical, Inc. 200 Route 130 North Cinnaminson, NJ 08077

EMSL Order Number Lab Use Only

132107949

⊇- 4 € (800) 220-3675

Entire CinnMicroLab@emsl.com

Special Instructions and/or Regulatory Requirements (Sample Specifications: Processing Methods: Limits of Detection: etc.) Potable / Non-Sample Type Temperature Sample # Sample Location/Description Potable (Only for **Test Code** Volume/Area Date / Time Collected il ab Use Only) (Matrix) Water) Plaza Room 131

Minsulated Return Duct

Plaza Itall @ Room 122

Minsulated Petern Duct M041 10-21-21 445 per TL-1 TC.2 Micza Room 621 SUMY DCT Maza foom 121 B winsulated feron duct Maza Edevator H 5 why Unisulated Styly Duct PILLA Room 124 TL6 WINSULETED RETURN DUCT PILLA PODALZY ATTOTINCY BOOK WAS TOTAL STATED ROOM 140A WAS A TOD REACH DUCT PIEZA PODA 131
11524 PODA 131
1150-1-7-5 STATED DUCT TUN Plaza Ruom 131 Uninsulated Perwin Duct MSLETE SIMY DOT TOP TC-11 Plaza Room 110 B O From 109 uninsulated Return Duct Meza form 108 uninsulated signly Duct TUIZ TL13 11629 Low 1100 Parx 107 Maza form 103 D form 108 TLIY TUIT TL 10 TUIT Sample Condition Upon Receipt Date/Time | 15 - 21 - 21 | Date/Time Relinquished by Date/Time Received by Relinquished by Received by Date/Time ontrolled Document - COC-34 Nacro R13 3/02/2021 AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature)

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.

Results of Microbial Sampling during Duct Inspections Ireland Courthouse, 50 State Street, Springfield, Massachusetts TRC Project 458085 November 12, 2021

Appendix 3 Approximate Ventilation Zone Drawings











TRC Project 458085

Client:

Massachusetts Trial Courts
Facilities Management
& Capital Planning
Suffolk County Courthouse
3 Pemberton Square, Suite 106
Boston, MA 02108

Site:

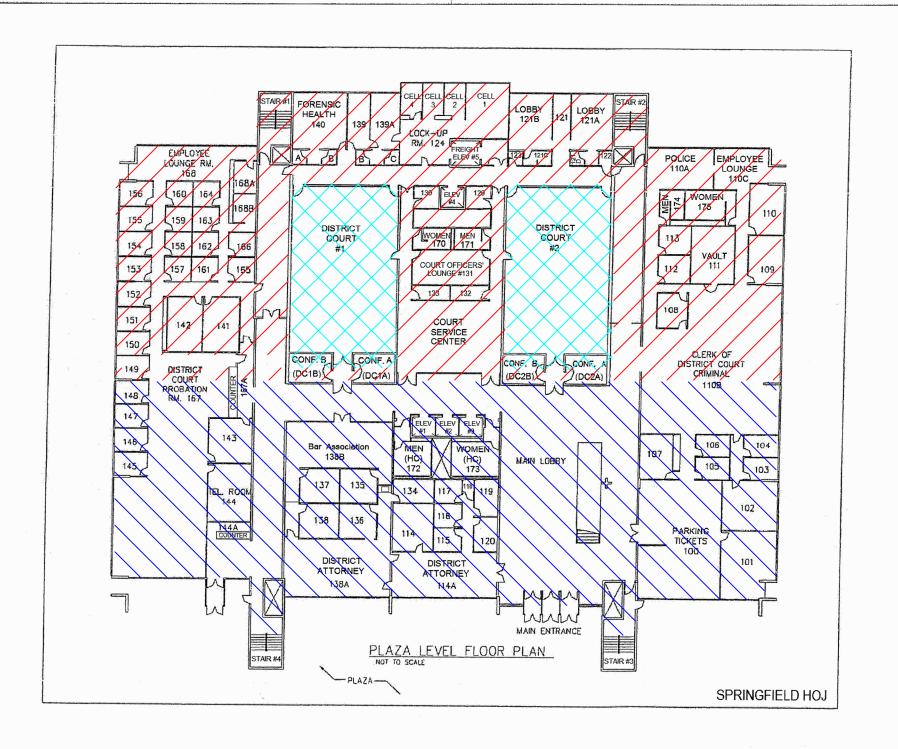
Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Approximate Ventilation Zones as Reported by Client

Garage Level

NOT TO SCALE

Date: 11.11.21











TRC Project 458085

Client:

Massachusetts Trial Courts Suffolk County Courthouse 3 Pemberton Square, Suite 106 Boston, MA 02108

Site

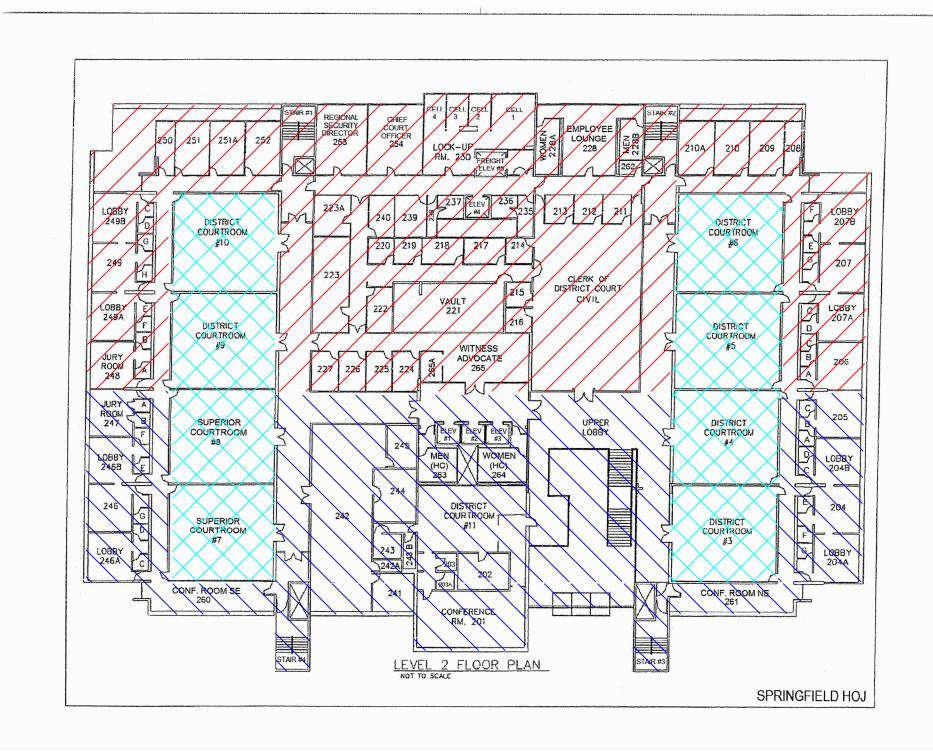
Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Approximate Ventilation Zones as Reported by Client

Plaza Level

NOT TO SCALE

Date: 11.11.21











TRC Project 458085

Client:

Massachusetts Trial Courts
Facilities Management
& Capital Planning
Suffolk County Courthouse
3 Pemberton Square, Suite 106
Boston, MA 02108

Site

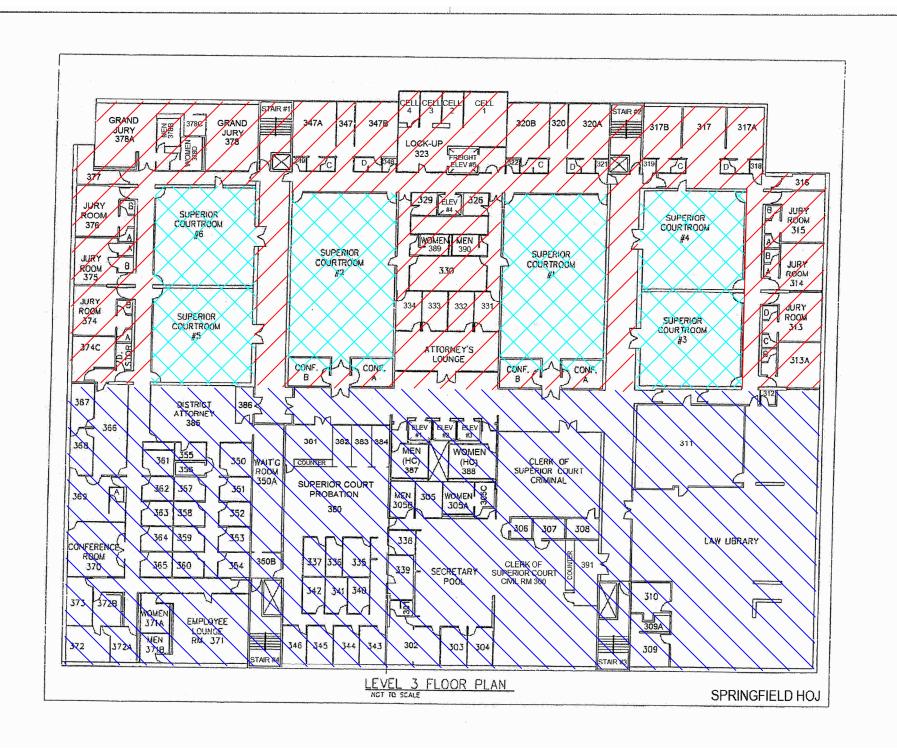
Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Approximate Ventilation Zones as Reported by Client

Second Floor

NOT TO SCALE

Date: 11.11.21





AC 4





300 Wildwood Avenue, Suite 230 Woburn, MA 01801 Tel: 781.933.2555 Fax 781.932.9402 www.TRCCompanies.com

TRC Project 458085

Client:

Massachusetts Trial Courts Suffolk County Courthouse 3 Pemberton Square, Suite 106 Boston, MA 02108

Site

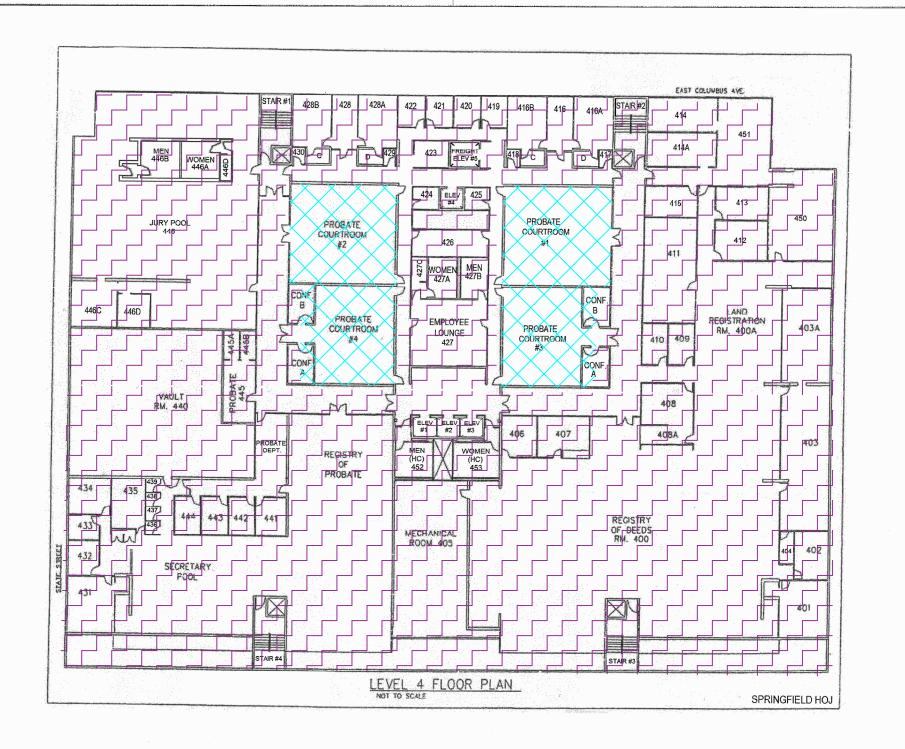
Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Approximate Ventilation Zones as Reported by Client

Third Floor

NOT TO SCALE

Date: 11.11.21





TRC Project 458085

Client:

Massachusetts Trial Courts Suffolk County Courthouse 3 Pemberton Square, Suite 106 Boston, MA 02108

Site

Roderick L. Ireland Courthouse 50 State Street Springfield, Massachusetts

Approximate Ventilation Zones as Reported by Client

Fourth Floor

NOT TO SCALE

Date: 11.11.21

Edited by: HAJ

选链 AC 2



AC 1