



Environmental Analytical Services, LLC

Client: Platinum Environmental Solutions

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Project # P#1909-3

EAS Job # PES19.185

Project Name: 5809 Darling #B

Biologic Particle Report

Analysis: Light Microscopy Identification of Pollen/Fungal spore

Sample media : Allergenco-D (airborne)

Received Date: September 3, 2019

Report Date: September 4, 2019

Turnaround Time: 24 hour

Attention: Christopher Felan

Sample # Location Volume	S-1 Baseline 75			S-2 Foyer 75			S-4 1st Floor Bedroom 75			Not Used		
Conclusion	Control			Not Elevated			Not Elevated					
Alternaria	108	1,440	17.7	2	27	3.8						
Ascomycetes	64	853	10.5									
Basidiomycetes	55	733	9.0									
Botrytis												
Chaetomium												
Cladosporium	118	1,573	19.4	29	387	55.8	18	240	72.0			
Curvularia	64	853	10.5									
Drechslera/Helm.	88	1,173	14.4									
Epicoccum												
Oidium/Erysiphe												
Fusarium												
Myxomycetes												
Mucor												
Penicillium/Asp.	62	827	10.2	21	280	40.4	7	93	28.0			
Nigrospora	42	560	6.9									
Peronospora												
Pithomyces												
Smut												
Stachybotrys												
Stemphillium												
Unidentified	8	107	1.3									
Pollen	106	1,413										
% Particulates Loading/Background Debris	60.00%			5.00%			2.00%					
Total Spores	609	8,120		52	693		25	333				
	Total	Cnts./	Per-	Total	Cnts./	Per-	Total	Cnts./	Per-	Total	Cnts./	Per-

Analyst-Arthur Hernandez

Lab Director- Arthur Hernandez

LABORATORY ANALYSIS METHOD

Summary of light microscopy analysis of allergenic particles in tape or air cassettes. Tape lift samples indicate presence or absence and identification of known allergenic particles. Sample analysis is performed only by professionally trained individuals. This test report relates only to the items tested. It does not imply endorsement by any US Government agency. This report may not be reproduced except in full, without written permission by EAS. These results are submitted pursuant to EAS current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. If there are concerns about health aspects of known allergens, consult a physician. Pollen and spore types identified are all naturally occurring and may grow anywhere in a natural environment where water is present. While it is normal for fungi to be present inside all buildings from outside sources, growth occurs in humid conditions. Fungi cannot spread from building to building, as it is always present, but may or may not be growing. To control allergens in an inside area, drying and use of HEPA filters are recommended. Bias is present in all types of spore trap cassettes by particle size, capture, spread, and counting procedure used. Quantification is susceptible to variance of 100% and standard deviation of 200%. Unless notified in writing to return the samples covered by this report, EAS will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Notes: DSHS # LAB-1000

Analysis performed at Environmental Analytical Services, L.L.C. 13201 Northwest Freeway, Suite 520, Houston, TX 77040. phone (713) 343-4017, fax (713) 934-9942

Background debris qualitatively estimates the amount of particles that are not pollen or spores and directly affects the accuracy of the spore counts. The categories of Light, Moderate, Heavy, and Too Heavy, for Accurate Count, are used to indicate the amount of deposited debris, increasing amounts of obscure small spores and can prevent spores from impacting onto the slide. The actual number of spores present in the sample is likely higher than reported if the debris estimate is "Heavy" or "Too Heavy for Accurate Count". All calculations are rounded to two significant figures and therefore, the total percentage of spore numbers may not equal 100%.

*Minimum Detection Limit: Based on the volume of air sampled, this is the lowest number of spores that can be detected and is an estimate of the lowest concentration of spores that can be read in the sample.

Spores that were observed from the samples submitted are listed on this report. If a spore is not listed on this report it was not observed in the samples submitted.

Interpretation Guidelines: A determination is added to the report to help users interpret the mold analysis results. A mold report is only one aspect of an indoor air quality investigation. The most important aspect of mold growth in a living space is the availability of water. Without a source of water, mold generally will not become a problem in buildings. These determinations are in now way meant to imply any health outcomes or financial decisions based solely on this report. For Questions related to medical conditions you should consult an occupational or environmental health physician or pro.

Control: is a baseline sample showing what the spore count and diversity is at the time of sampling. The control sample(s) is usually collected outside of the structure being tested and used to determine if this sample(s) is similar in diversity and abundance to the inside sample(s).

Elevated: means that the amount and/or the diversity of spores, as compared to the control sample and other samples in our database, are higher than expected. This can indicate that fungi have grown because of a water leak or water intrusion. Fungi that are considered to be indicators of water damage include, but are not limited to *Chaetomium*, *Fusarium*, *Memnoniella*, *Stachybotrys*, *Scopulariopsis*, *Ulocladium*.

Not Elevated: means that the amount and/or the diversity of spores, as compared to the control sample and other samples in our database, are lower than expected and may indicate no problematic fungal growth.

Unusual: means that the presence of current or former growth was observed in the analyzed sample. An abundance of spores are present, and/or growth structures including hyphae and/or fruiting bodies are present and associated with one or more of the types of mold/fungi identified in the analyzed sample.

Normal: means that no presence of current or former growth was observed in the analyzed sample. If present, no mold growth was observed in the air and has settled on the surface(s).



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Bulk Sample, Swab and Tape Lift Report

Platinum Environmental Solutions
10413 Rockley
Houston, TX 77099

Project Name:
5809 Darling #B
P#1909-3

EAS Job: PES19.185

Date of Analysis: September 4, 2019

Phone: 713-446-9737

Email:

Chris@engineeringandconsulting.com

Turnaround Time: 24 hour

Date Received: September 3, 2019

Sample#	Location	Plant pollen types identified	Fungal spore types identified	Particles Present or Absent	Approximate particulate loading (low, med, hi)
S-3 Swab	1 st Floor Vent	None Detected	Cladosporium	Present	High

Analysis Method: Light Microscopy identification of plant pollen types and fungal spore types utilizing keys and refractive references of known biologic particle types, identified to genus. Results are qualitative only.

Preparation Method: Bulk, swab and tape lift direct mount on microscope slide using calibrated refractive index oil.

Arthur Hernandez
Analyst

Arthur Hernandez
Laboratory Director

Notes: TDH # LAB-1000

Pollen and fungus type qualifications and quantifications are based on keys and reference standards for known biologic types. Sample analysis is performed only by professionally trained individuals. This test report relates only to the items tested. This report does not imply endorsement by any government agency. This report may not be reproduced except in full without written permission from EAS Labs. Particulate Loading: High is equal to 70%-100%, Medium is equal to 40%-60%, Low is equal to 10%-30%. These results are submitted pursuant to EAS Labs' current terms and condition of sale, including the company's standard warranty and limitation of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. If health concerns should arise relating to allergens, consult a physician. Unless notified in writing to return the samples covered by this report, EAS Labs will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee may be assessed for the return of any samples.

Mike Arismendez
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Vice Chair



Helen Callier
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Mold Assessment Consultant
CHRISTOPHER L FELAN

License Number: MAC1278

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License Expires: February 25, 2020

Brian E. Francis
Executive Director

STATE OF TEXAS

CHRISTOPHER L FELAN

MOLD ASSESSMENT CONSULTANT



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TEXAS DEPARTMENT OF LICENSING AND REGULATION