

ENVIRONMENTAL ANALYSIS ASSOCIATES, INC.

306 5th Street, Suite 2A - Bay City, MI 48708



LABORATORY REPORT

AIRBORNE MOLD & DUST ANALYSIS

Report prepared for : ABC Environmental

Client Project # : 14133
Project Description : 123 Oak Drive

EAA Project # : 24-2194

Samples Collected : 09/24/24
Samples Received : 09/26/24
Date of Analysis : 09/26/24

Authorized / data reviewed by : *Joseph R. Heintskill*

Joseph R. Heintskill
Laboratory Manager

The EAA sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client. All particle concentrations are rounded to 3 significant figures. In order for chart clarity, cells where the particle category was not detected are intentionally left blank.

Environmental Analysis Associates, Inc. (EAA) shall not be liable to the client or the client's customer with respect to interpretation, recommendations made or actions implemented by either the client or the client's customer as a result of or based upon the test results.

All samples were received in acceptable condition unless noted in the General Comments section of the data report.

**AIRBORNE MOLD & DUST ANALYSIS**

EAA Method #: DUST-A01

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Client Name : ABC Environmental

Client Project # : 14133

Project description : 123 Oak Drive

Requested by : John A. Doe

Date collected : 9/24/24

Sample condition : Acceptable as received

EAA Project# : 24-2194

Sample received : 9/26/24

Client Sample#	Sample Description / Location	Background Dust Loading - General Comments				
3742 3940	Living Room	Typical dust				
3742 3941	Closet	Typical dust				
3620 9968	Bedroom 1	Elevated skin fragments				
3742 3927	Bedroom 2	Elevated fiberglass fibers				
3742 3949	Bedroom 2 Bath	Atypical opaque dust				
AIRBORNE MOLD SPORE CONCENTRATIONS (cts/m³) -- Spore Trap Sample Analysis						
High mag. used 500X						
Category	Sample # -->	3742 3940	3742 3941	3620 9968	3742 3927	3742 3949
Total Mold Spores (cts/m³)		9710	2430	2340	5300	3240
Alternaria		14				
Aspergillus / Penicillium		4160	777	1970	1870	914
Pigmented Asco & Basidio		686	229	46	320	183
Mix tiny, hyal Asco & Basidio		3430	1420	274	2650	1690
Botrytis						
Chaetomium						
Cladosporium		686		46	411	457
Curvularia		46				
Drechslera / Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium / Peronospora						
Pithomyces		46			46	
Rusts						
Smuts / Myxomycetes / Periconia		46				
Stachybotrys		594				
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi						
Unidentified Fungi						
Hyphae fragments		320				
Algal / fern spores						
Insect parts						
POLLEN (Total cts/m³)		not detected	not detected	not detected	not detected	not detected
Not specified						
Pinus						
COMMON AEROSOLS (cts/m³)						
Skin cell fragments		6580	3290	28400	10300	23100
Fiberglass fibers					137	
Cellulosic / synthetic fibers		366	137	1190	503	137
Unidentified opaque		1280	1780	2700	3840	10300
Mineral / clay soil dust		4570	6490	20900	24700	6860
OTHER AEROSOLS (cts/m³)		not detected	not detected	not detected	not detected	not detected
Statistical Parameters						
Vol. analyzed (m³)-high mag - 500x:		0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m³)-high magnification:		45.7	45.7	45.7	45.7	45.7
% sample analyzed-high magnification:		29%	29%	29%	29%	29%
Vol. analyzed(m³)/entire sple 150-300x:		0.075	0.075	0.075	0.075	0.075
* Detection limit (Cts/m³)/entire sple:		13.3	13.3	13.3	13.3	13.3
* Note: The "entire sample" detection limit applies to the "large" particle categories analyzed during the low magnification examination of the entire sample						
Sample flow rate (lpm):		15.0	15.0	15.0	15.0	15.0
Sample trace length (mm):		14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):		0.420	0.420	0.420	0.420	0.420

Note: Sample results are only applicable to the items tested and locations as received. Sample descriptions and volumetric data are provided by the client.

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Background dust loading criteria (Estimated area%): Typical-low <5%, Typical 5-20%, Atypical, 20-40%, Elevated 40-80%, Overloaded >80%

Authorized / data reviewed by: Joseph R. Heintskill

Report date: 10/11/24

Analyst: err

Date analyzed: 9/26/24

AIRBORNE MOLD & DUST ANALYSIS

(Mold and Dust Comparison Summary - Cts/m³)

EAA Method #: DUST-A01

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Client Name : ABC Environmental
Client Project # : 14133
Requested by : John A. Doe

Project description : 123 Oak Drive
EAA Project#: 24-2194

Sample # Description	Mold Spores * Total	Aspergillus / Penicillium	Chronic W.I. Fungi	Outdoor Spores	Hyphae Fragments	Pollen	Skin cell Fragments	Fibrous Dust		Non-Fibrous Dust		Other Particles
								Min. wool / Fiberglass	Cellulose / Synthetic	Unident. Opaque	Crystalline Minerals	
3742 3940 Living Room	9,710	4,160	594	4,950	320		6,580		366	1,280	4,570	
3742 3941 Closet	2,430	777		1,650			3,290		137	1,780	6,490	
3620 9968 Bedroom 1	2,340	1,970		365			28,400		1,190	2,700	20,900	
3742 3927 Bedroom 2	5,300	1,870		3,430			10,300	137	503	3,840	24,700	
3742 3949 Bedroom 2 Bath	3,240	914		2,330			23,100		137	10,300	6,860	

* Note : All individual particle category values are rounded to 3 significant figures. As a result, individually summed mold categories may appear slightly different than the "Total" value
Chronic water indicating fungi (W.I.), include the genera Chaetomium, Stachybotrys, Ulocladium, and Trichoderma. The hyphae fragments category includes hyphae (mycelia), phialides, perithecia, etc. In order for chart clarity, cells where the particle category was not detected are intentionally left blank.

DISCLAIMER: This **AIR PROFILE** Comparison Summary is only a supplement to the actual data reports provided by EAA and shall not be reproduced except in full without the written approval of the laboratory. The sample results are only applicable to the items tested and locations as received. The sample descriptions and volumetric data are provided by the client. The statistical guideline ranges are based on the percentile frequency of occurrence of airborne mold and dust particles (cts/m³) measured by EAA in over 3,500 commercial and residential building samples during 2017 and 2018. The ranges are only intended to be used as an initial comparison with levels measured on your project. The laboratory test results are secondary support information to be used in conjunction with a thorough visual inspection provided by a qualified environmental professional. The local background and site specific building conditions must be considered by the investigator in order to render independent opinions or conclusions as to whether or not the concentrations measured by the EAA laboratory may represent a typical, atypical, or elevated condition on your specific project.

Range	Percentile
Elevated-6	>99%
Elevated-5	>95%
Atypical-4	>90%
Atypical-3	>75%
Typical-2	>50%
Typical-1	<50%



AIRBORNE MOLD & DUST ANALYSIS

EAA Method #: DUST-A01

RAW COUNT DATA ONLY - Do not use for volumetric concentration comparisons

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Client Name : ABC Environmental

Description : 123 Oak Drive

end of report

Client Project #: 14133

Date collected : 9/24/24

EAA Project#: 24-2194

Sample received : 9/26/24

Analysis magnification : 500x

Client Sample#	Sample Description / Location	Raw / Extrapolated Count Comments
3742 3940	Living Room	Note: When a fractional raw particle count is present, (e.g. 0.3), the count is based on counting the "entire sample" at low magnification. The results are then "back-calculated" to the high magnification detection limit for that specific particle category. This "raw" count page is required to be reported to the client as directed by the AIHA-LAP accreditation program.
3742 3941	Closet	
3620 9968	Bedroom 1	
3742 3927	Bedroom 2	
3742 3949	Bedroom 2 Bath	

AIRBORNE MOLD / DUST (Raw / Extrapolated Spore Counts Only) - Spore Trap Sample Analysis

Category	Sample # -->	3742 3940	3742 3941	3620 9968	3742 3927	3742 3949
Total Mold Spores - Total cts		212	53	51	116	71
Alternaria		0.3				
Aspergillus / Penicillium		91	17	43	41	20
Pigmented Asco & Basidio		15	5	1	7	4
Mix tiny, hyal Asco & Basidio		75	31	6	58	37
Botrytis						
Chaetomium						
Cladosporium		15		1	9	10
Curvularia		1				
Drechslera / Bipolaris						
Epicoccum						
Fusicladium-like						
Nigrospora						
Oidium / Peronospora						
Pithomyces		1			1	
Rusts						
Smuts / Myxomycetes / Periconia		1				
Stachybotrys		13				
Stemphylium						
Torula						
Ulocladium						
Other Hyaline Fungi						
Other Fungi						
Unidentified Fungi						
Hyphae fragments		7				
Algal / fern spores						
Insect parts						
POLLEN (Total cts)		not detected	not detected	not detected	not detected	not detected
Not specified						
Pinus						
COMMON AEROSOLS		280	256	1165	864	884
Skin cell fragments		144	72	622	226	505
Fiberglass fibers					3	
Cellulosic / synthetic fibers		8	3	26	11	3
Unidentified opaque		28	39	59	84	226
Mineral / clay soil dust		100	142	458	540	150
OTHER PARTICLES		not detected	not detected	not detected	not detected	not detected

Statistical Parameters

Vol. analyzed (m³)-high mag - 500x:	0.022	0.022	0.022	0.022	0.022
Detect limit(Cts/m³)-high magnification:	45.7	45.7	45.7	45.7	45.7
% sample analyzed-high magnification:	29%	29%	29%	29%	29%
Vol. analyzed(m³)/entire sple 150-300x:	0.075	0.075	0.075	0.075	0.075
* Detection limit (Cts/m³)/entire sple:	13.3	13.3	13.3	13.3	13.3
* Note: The "entire sample" detection limit applies to the "large" particle categories analyzed during the low magnification examination of the entire sample					
Sample flow rate (lpm):	15.0	15.0	15.0	15.0	15.0
Sample trace length (mm):	14.40	14.40	14.40	14.40	14.40
Microscope field diameter (mm):	0.420	0.420	0.420	0.420	0.420

NOTE: The raw particle count data cannot be used as a measure of the actual airborne concentration and only represents the number of "raw" or extrapolated particles counted.

Where a fractional value is present (e.g. 0.3 or 1.3) for any mold or dust category, the entire trace for this category was analyzed and the "entire sample detection limit" applies.

Analyst : err

Date analyzed: 9/26/24

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